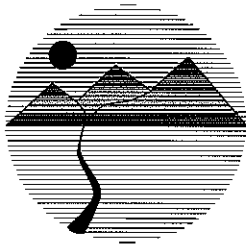

ATTACHMENT C



AIR, SOIL AND WATER
ENVIRONMENTAL CONSULTANTS, INC.

PCB ABATEMENT REPORT
PHASE ONE

For

UNIVERSITY MEDICAL CENTER OF EL PASO

June 22, 2010

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TABLE OF CONTENTS

	Page Number
1. Executive Summary	4
2. Record Search	4
3. Interim Corrective Action	4
4. Project Management	5
5. Determination of Abatement Extent	6
6. Abatement Approach	8
7. Chemistry Results	8
8. Disposal	10
9. Memo from the EPA	11

APPENDIX

- UMC First Floor Layout
- Confirmation Sample Locations
- Air Sample Locations
- East Wall Panel Locations
- Photos
- Analytical Results
- Laboratory Reports
- Air Sample Reports
- Marcor Emergency Response Action Plan
- Waste Manifest
- PCB abatement plan
- Air monitoring plan
- EPA Correspondence
- Environmental Information

1.0 Executive Summary:

ASW conducted a follow up contamination investigation of the PCB laden caulk for the University Medical Center El Paso. This investigation included interior air monitoring of the West Tower, along with exterior sampling of selected locations for suspected PCB containing materials. In response to a construction requirement ASW wrote an abatement plan and air monitoring plan for a partial abatement project. Both plans were accepted by the EPA. ASW conducted the project management, air monitoring and confirmation sampling for the PCB abatement of the selected sections of the first floor East Wall and Southwest Walls.

Polychlorinated biphenyls PCBs has been identified as a constituent of the caulking material within the expansion joints of the exterior wall panels. The wall panel covers the majority of the West Tower of the University Medical Center (UMC). The West Tower is an eight story building. PCBs have been identified by EPA analytical methods in the caulk and adjacent concrete materials within the wall panels. Detectable quantities of PCBs were located in the West Tower's first through seventh floors. This section of the hospital was built in the 1960s.

The project consisted of polychlorinated biphenyls PCB-containing caulk removal from the expansion joints adjacent to the exterior concrete wall panels. The remediation included partial removal of designated wall panels, debris and waste handling and disposal. The work will be performed under the current USEPA regulations and guidelines.

2.0 Record Search

The University Medical Center conducted a record search to obtain the identity of the manufacture of the PCB containing caulk. The original 1959 architectural drawings of the subject building were found, however the plans did not outline the manufacture of the PCB containing caulk. A set of drawings were duplicated and sent to the EPA.

3.0 Interim Corrective Action

Three potential exposure pathways have been identified as areas with possible exposure to pedestrian traffic and employees work areas. These areas include the Associates Entrance and Rear Exterior Wall on the first floor and the Work Areas on the second floor. As per the CURRENT BEST PRACTICES FOR PCBS IN CAULK FACT SHEET; Interim Measures for Assessing Risk and Taking Action to Reduce Exposures, October 2009, UMC sealed the expansion joints with heavy-duty plastic strips. The plastic strips were adhered to the surrounding wall panels by an adhesive in areas exposed to the general public. The strips were wide enough to cover the expansion joints along with the areas of potential migration of

PCB into the surrounding wall panels. Please see the attached drawing showing the areas the plastic strips covered.

4.0 Project Management

At the request of University Medical Center (UMC), El Paso, Texas, Air Soil and Water Environmental Inc. (ASW) provided project management of the Phase I PCB Abatement for the University Medical Center, El Paso, Texas. An abatement plan, *Phase I Abatement of PCB Caulk*, and an air monitoring plan have been written and were sent to the EPA for review. The plans were acceptable to the EPA.

During the abatement activities, ASW provided oversight of all work associated with the Phase I PCB Abatement. This included ensuring the abatement contractor adheres to the EPA regulations including, but not limited to 40 CFR § 761.62(a). ASW performed air monitoring activities inside the negative pressure containment area, as well as, the monitoring the ambient air outside the containment area to determine if PCBs were released beyond the containment area.

The original abatement plan was to consist of the removal of PCB laden caulk contained in the expansion joints of the exterior wall panels located in the southwest portion of UMC, where a new addition to the Emergency Department (ED) required the complete removal of the panel walls. The plan called for the panels to be clean up to EPA requirements and be disposed as an industrial waste. However, during abatement of the ED area a discovery was made indicting the east wall of the West Tower could be enclosed by the merger with the new East Tower within a month. A decision was made to remediate this section while the east wall was still exposed. Two sections on the eastern wall were not remediated. The northern section of the east wall was already reconstructed with a new concrete stucco cover. The other section not disturbed was within to the middle section of the east wall. 45 linear ft of the eastern wall was reconstructed with a new material with a similar appearance to the original wall panels. The material was actually a stucco adhered to a metal wire and a similar aggregate to the wall panels was imbedded into the stucco. No caulking was discovered surrounding this aggregate encrusted stucco.

The first activity of Phase I Abatement consisted of the removal of caulk from 17 panels surrounding the proposed construction area of the expansion of the existing emergency room. After lab results indicated the remaining wall material was less than 1 ppm, 8 of the 17 panels were removed by the General Contractor, Robins & Morton and were disposed as an industrial waste as per an EPA memo directing the proper disposal of the wall panels, see page 12; EPA Memo.

After the first abatement attempt was made at the West Wall; South side was finished, high winds tore down the containment unit. The unit was clean and ready to be removed. ASW requested Marcor the abatement contractor to write an Emergency Response Action Plan under ASW directions to reinforce the existing operations. Changes to the containment included attaching the plastic to scaffolding with a plywood outer shell for reinforcement and wind protection. ASW had Marcor include written instructions to stop abatement, clean up any ongoing activities and secure the containment if the sustained winds exceed 25 MPH.

The abatement contractor setup the containment area and a differential pressure data logging to record negative pressure readings. The set point was a pressure that would be greater than the pressure required by OSHA for asbestos abatement.

5.0 Determination of Abatement Extent

The first abatement and sampling investigation indicated that when concrete wall panels were properly prepared prior to sampling the concentration of PCB within the concrete did not exceed the EPA hazardous material limit of 50 ppm.

The previous sampling technique for concrete incorporated the chipping of the concrete wall panels to retrieve a sample. There is a possibility some caulking was still attached to the surface of the concrete wall panel and was removed along with the concrete sample. Additional concrete samples were extracted to determine if PCBs migrated from the caulking into the concrete.

This sampling was accomplished by coring small diameter samples, 1/4" to 1/2" inch into the wall panel at discrete intervals from the expansion joint.

The sampling of the concrete in the wall panels for PCB consisted of coring holes at discrete distances from the surface of expansion joints. Each of the concrete samples was tested for PCBs. This sampling and testing determined the PCB penetrated into the wall panel from the caulk no more than 3 inches.

In the first abatement, concrete wall panels were cut 3 inches from the edge of the expansion joint to removed areas with concentration above 1 ppm. Only the wall panels that were scheduled to be removed or that would be covered within a month by the attachment of the new Children's tower to the existing West Tower were abated. Since the outcome of the risk assessment would not be approved by the EPA before the East Wall was enclosed by new construction, the prudent approach was to remediate this section before the risk assessment. Abatement of the East Wall will avoid this section to be incorporated into the risk assessment.

When discussing PCB contaminated materials the differentiation between the original materials manufactured with PCB (caulk) and the material contaminated by migration of PCB from the original PCB containing material becomes important in understanding PCB remediation.

In the case of UMC, the caulk manufactured with PCB would be classified as *PCB bulk product waste* under 40 CFR § 761.3. All other material, such as the surrounding concrete, contaminated by the caulk is classified as *PCB remediation waste* as defined by 40 CFR § 761.3.

From EPA documentation "Caulk containing PCBs at concentrations ≥ 50 ppm is not authorized for use and must be removed and properly disposed. When disposed, the caulk must be managed as *PCB bulk product waste*. Regulations governing the cleanup and disposal of *PCB bulk product waste* are provided at 40 CFR § 761.62. All PCB-containing caulk or caulk coated building material containing PCBs at concentrations ≥ 50 ppm must be removed unless otherwise approved by EPA under a risk-based disposal approval issued under 40 CFR § 761.62(c)".

Based on the limited current analytical data, at UMC the caulk PCB levels are higher than the 50 ppm and along with the friable condition of the caulk; ASW believes a risk assessment would require removal and disposal of older caulk at UMC. However the material contaminated by caulk is governed under a different regulation. "Regulations governing the cleanup and disposal of PCB remediation waste are provided at 40 CFR 761.61. The requirements in this section vary depending on, among other things, the type of building material that contains the PCBs (i.e., porous or non-porous) and the potential exposure levels remaining after cleanup is completed." The risk assessment will focus on the low potential risk of the PCB remediation waste, concrete of the wall panels and load bearing supports, being undisturbed and left in-place.

The chemical properties of PCB may allow the PCB to migrate into surrounding materials, such as concrete. A second avenue of cross contamination could be by suspended air borne particulates from the friable caulking material coating the concrete surface. The matrix within the PCB laden caulk has deteriorated over the years and the current physical condition of the caulk is extremely friable. This friable condition could lead to the caulk becoming air borne and could re-adhere to the surface of the concrete panels. In consideration the concrete could be coated with PCBs from friable caulk, ASW prepared the concrete surface area prior to extracting a concrete sample from the wall panels by physically removing foreign particulates that may have contained PCBs particulates. Coring drilling of the concrete wall panels was employed as a discrete sampling technique to protect core sample from comingling with the caulk from the expansion joints. The concrete material that was sampled and tested using the above referenced sampling technique did not contain PCB concentration above the EPA hazardous

material limit of 50 ppm. ASW believes that further concrete sampling will return similar results.

40 CFR § 761.3 requires the removal and disposal of material containing PCB concentrations greater than 50 ppm. The sampling results would indicate the concrete at UMC will not require mandatory removal. ASW will attempt to demonstrate that removal of the concrete will be a greater risk to the hospital environment than leaving the concrete undistributed, encapsulated and in-place.

The initial abatement completed at UMC was conducted under § 761.61.(a) *Self-implementing on-site cleanup and disposal of PCB remediation waste*. This regulation provides cleanup and disposal options for PCB remediation waste. In this case concrete is the remediation waste. This regulation does not prohibit any person from implementing temporary emergency measures to prevent, treat, or contain further releases or mitigate migration to the environment of PCBs or PCB remediation waste. This is the only federal regulation that would allow remediation without prior preapproval by the EPA. One disadvantage of this regulation is the cleanup level is ≤ 1 ppm rather than ≤ 50 ppm. Since UMC is classified as a high occupancy area, the cleanup level under § 761.61.(a) for bulk PCB remediation waste in high occupancy areas is ≤ 1 ppm without further conditions.

6.0 Abatement Approach

The abatement approach was to remove sections of interior sheetrock within administrative and radiology offices to provide access to expansion joints. The initial abatement activities required the abatement to be conducted within a sealed containment under a negative pressure. Air monitoring PCB results of the ambient air within the containment compared to concurrent air monitoring PCB results outside of the containment unit indicated the negative pressure was effective in preventing air borne PCB particulates from escaping to the exterior of the containment unit and thus insuring the health and safety of the patients, visitors and workers of UMC.

7.0 Chemistry Results

ASW used the following EPA Methods Tests to determine the concentration of the PCBs. For determining the presence of PCBs in indoor air, ASW used the EPA approved method: Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air - Compendium Method TO-10A (low air volume).

Solid material testing was conducted in accordance with EPA Method 3500B from EPA's SW-846, Test Methods for Evaluating Solid Waste. For analyzing extracts, Method 8082 from EPA's SW-846 was used.

The air monitoring plan included both pre and post air monitoring events. Eighteen (18) air monitoring samples were taken for Phase I. ASW sent air samples to the laboratory for analysis by EPA 10-A. ASW documented the differential pressure readings within the containment and the outside atmospheric air pressure to ensure the negative pressure within the containment reduces possible releases of particulates laden with PCBs.

Chemistry summary tables for the confirmation and air monitoring samples are attached in the appendix of this report. The Table 4a contains a breakdown of the laboratory results for 18 air samples monitoring the abatement activities. Samples were taken inside and outside of the containment concurrently to determine if PCBs were escaping the containment. The first sample (ABT-1-PRE) was taken prior to the abatement to establish background conditions. This sample was non-detectable. All inside samples (IN-CON) showed PCBs whereas all samples taken outside (OUT-CON) of the containment were non-detectable except during a failure of the duct tape adhering the containment to the wall on 4/12/2010. On this date, a Sunday, a failure occurred when elevated ambient heat created a failure of the adhesiveness of the duct tape securing the plastic sheeting of the containment unit to the exterior walls of the hospital. The 24 hr. test indicated the ambient air contained a PCB concentration of 2.3 ug/m³. Prior to this incident, small leaks in the containment unit indicated the pressure within unit was greater than the goal of -2 inches of water set at the beginning of the abatement. The leaks were fixed by employing a better control of the decontamination change areas.

The air samples were collected using the EPA sampling and analysis methodology. The applicable method to sample and analyze polychlorinated biphenyls (PCBs) in ambient air is U.S. EPA METHOD TO-10A. This method is used for the determination of polychlorinated biphenyls (PCBs) in ambient air. The method is based on the collection of chemicals from ambient air onto a filter and a polyurethane foam (PUF) cartridge using a low volume sampler. The sampler is operated at 1 to 5 L/min for 24 hours. The target compounds are extracted and analyzed by gas chromatography (GC) with an electron capture. Air samples were sent to Columbia Analytical Services - Simi Valley, Ca for testing.

After the abatement was finished, seven confirmation samples were extracted from the wall panels and undistributed building material to ensure the proper clean up levels have been obtained.

The second chemistry table (Table 4.b) is the results of the concrete wall samples to confirm the amount of PCB left in the wall after abatement. The first 2 samples indicates the first abatement attempt on the ER's South wall failed to achieve the target clean-up of less than 1 ppm as directed by the EPA. After the 3" cuts of concrete were removed from the edge of the expansion joint, all confirmation samples on both the south and west wall were less than 1 ppm.

After the first abatement of the caulk and panels, the first 2 concrete wall panels confirmation samples came back at 60 and 120 mg/Kg by EPA 8082. A modification to the abatement plan consisted of removing 3" of concrete panel sections from the expansion joint's edge. After the removal of the 3" cut, the remaining panel PCB level is at 0.17 mg/Kg (sample was taken from the new edge).

EPA METHOD 8082 POLYCHLORINATED BIPHENYLS (PCBs) BY GAS CHROMATOGRAPHY SW-846 will be used for the analysis of wipe, caulk and concrete samples. Samples will be sent to Columbia Analytical Services, Inc. Kelso, Washington.

The equipment used for air monitoring was Bios Defender Model 510H electronic Primary Standard Calibrator with lead-acid battery, and the AirChek XR5000 Pump, Hi-Power Li-Ion, UL.

8.0 Disposal.

Disposal of waste materials that contain PCBs was conducted in compliance with the Toxic Substances Control Act (TSCA). Disposal of the contaminated materials was transported to a TSCA chemical waste landfill and a TSCA approved incinerator.

PCB remediation waste was disposed of in a hazardous landfill with >1 ppm PCB. PCB Bulk Waste was sent to a TSCA approved incinerator.

Concrete panels were sent a non-hazardous landfill after lab results indicated the panels contained a PCB content of less than 1 ppm.

40 CFR § 761.61 "(A) High occupancy areas; indicates the cleanup level for bulk PCB remediation waste in high occupancy areas is ≤ 1 ppm without further conditions." The high occupancy area appears to be setting for cleanup at this facility. In 40 CFR § 761.61 it states "(ii) Bulk PCB remediation wastes with a PCB concentration of <50 ppm shall be disposed of in accordance with paragraph (a)(5)(v)(A) of this section".

9.0 Memo from the EPA

Ms. Lou Roberts
Regional PCB Coordinator
USEPA REGION 6
1445 Ross Avenue
Suite 1200
Mail Code: 6ENHM
Dallas, TX 75202-2733

Robert,

Thank you for submitting your latest documents for my review, since this is the first caulk remediation activity undertaken within Region 6 jurisdiction that I'm aware of at least, even though this remediation will be done pursuant to 40 CFR § 761.62(a) Performance-based disposal for PCB bulk product waste (caulk) and 40 CFR § 761.61(b) Performance-based disposal for PCB remediation waste (concrete panels where PCBs have leached into the concrete from the caulk).

As we discussed by phone, I suggest ongoing testing to ensure the integrity of your containment area (i.e., negative air pressure). Also, your air monitoring action level should be 0.01 ug/m^3 which equals a 10^{-6} risk level. You confirmed that the 24-hour air sampling will be converted to show a time-weighted average over an 8- or 10-hour workday, forty hours per work week. You also understood that you would ensure any Transporters would have filed an EPA Form 7710-53 as such and have received an EPA TSCA PCB Identification Number.

We discussed and I stated I would get back with you on storage issues. Thomason Hospital as the generator of PCB bulk product waste and PCB remediation waste would not need an EPA TSCA PCB Identification Number for your manifest(s) as long as you ship your PCB waste for disposal within 30 days of the day the PCB waste is generated. Your temporary storage area will need to be marked as well as your waste containers (i.e., gondolas).

In addition to adhering to the marking, storage, and disposal requirements of 40 CFR Part 761, you must adhere to the recordkeeping requirements and maintain all of your records regarding this remediation activity for five years.

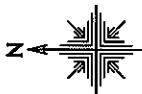
It is my understanding that the PCB bulk product waste will be sent to the Veolia Port Arthur, TX facility for incineration. The PCB remediation waste (concrete panels) will be decontaminated pursuant to 40 CFR § 761.79 Decontamination standards and procedures. Note: that your sampling of the concrete panels must be other than wipe samples as 79(b)(4) states "... as measured by a standard wipe test (§ 761.123) if the decontamination procedure is commenced within 72 hours of the initial spill." Since your going to dispose of these panels in a non-hazardous waste landfill, you can certainly do the wipe samples, but also do destructive sampling to show no PCBs at 1 ppm or greater.

I think that concludes what I was to cover in this email. As we discussed yesterday by phone, there is no time constraint on when your remediation activities can begin. You stated that the contractors coming from California will be on site Monday, March 29, 2010.

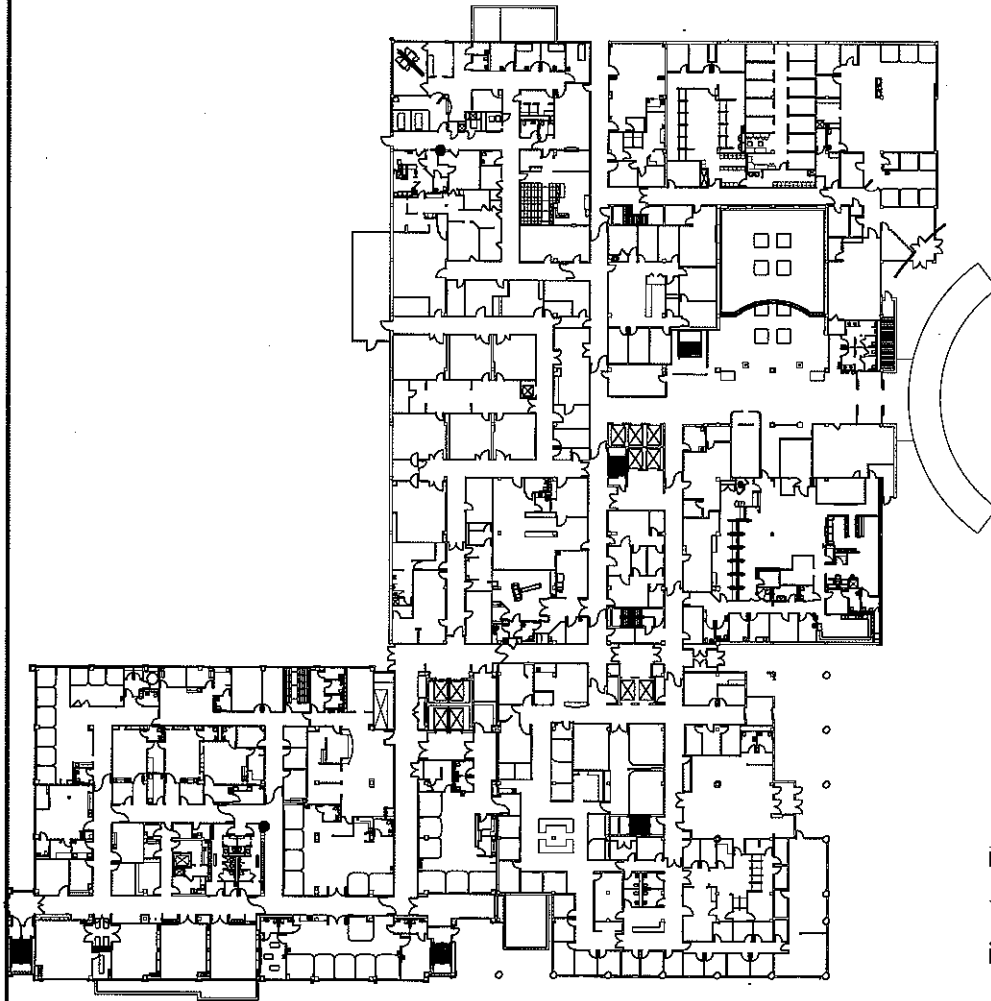
In closing let me reiterate, that for the future phases of the Thomason Hospital project, you can do various phases of the project pursuant to different authority (e.g., you can do this current emergency activity pursuant to 61(b) and then do another phase pursuant to 61(a) or 61(c)). Your contact in the future will be Jim Sales whom I've included on this email.

If I've forgotten anything or if something isn't clear, please do not hesitate to contact me. I'm going to be on a conference call starting in just a few minutes at 2:00 pm. my time.

Lou Roberts (6EN-HM)
U.S. EPA Region 6
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733
(214) 665-7579
Fax (214) 665-7446



SCALE 1"=75'

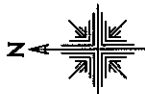


First Floor

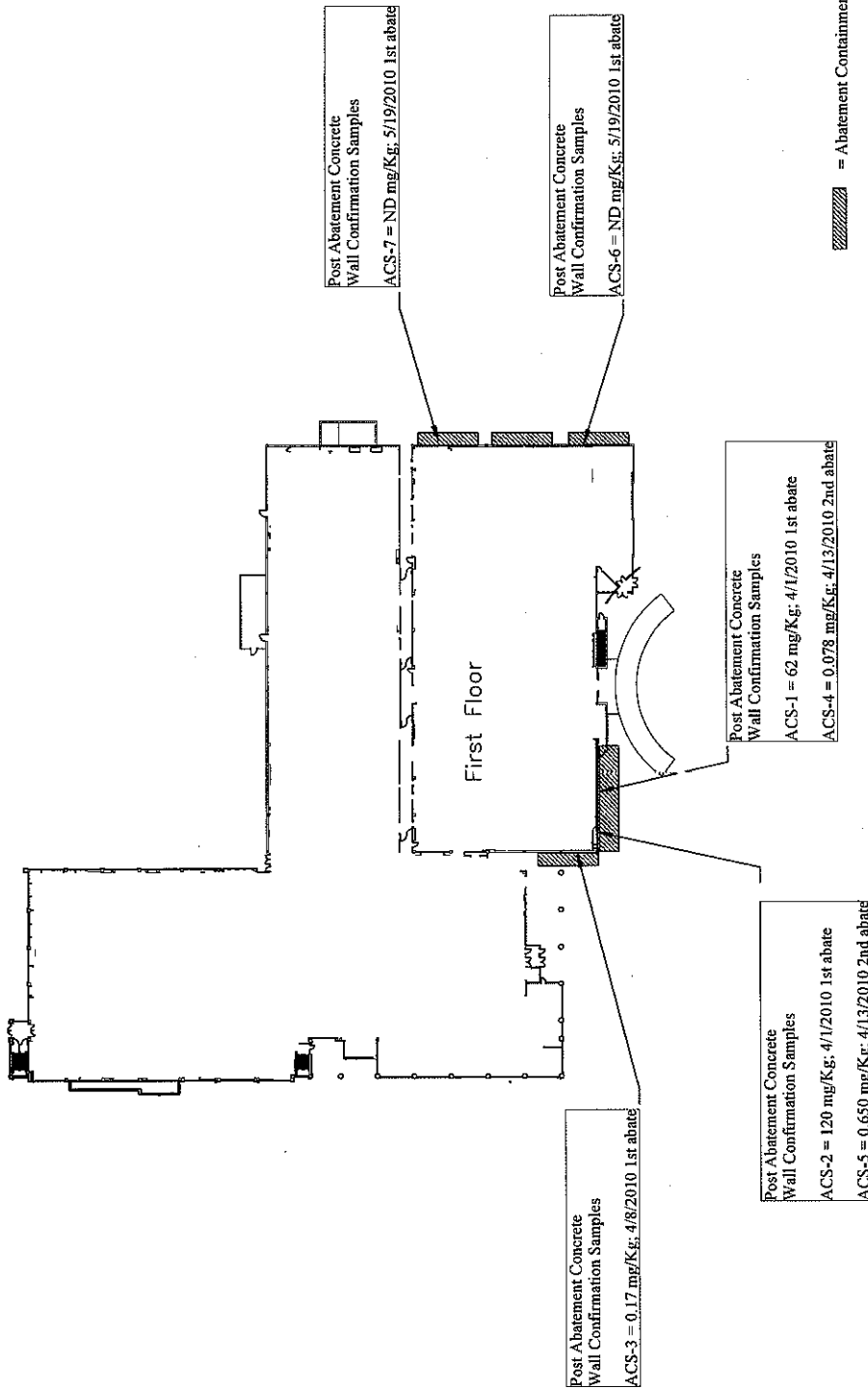
University Medical Center
El Paso, Texas

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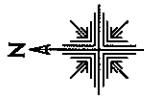


University Medical Center
El Paso, Texas

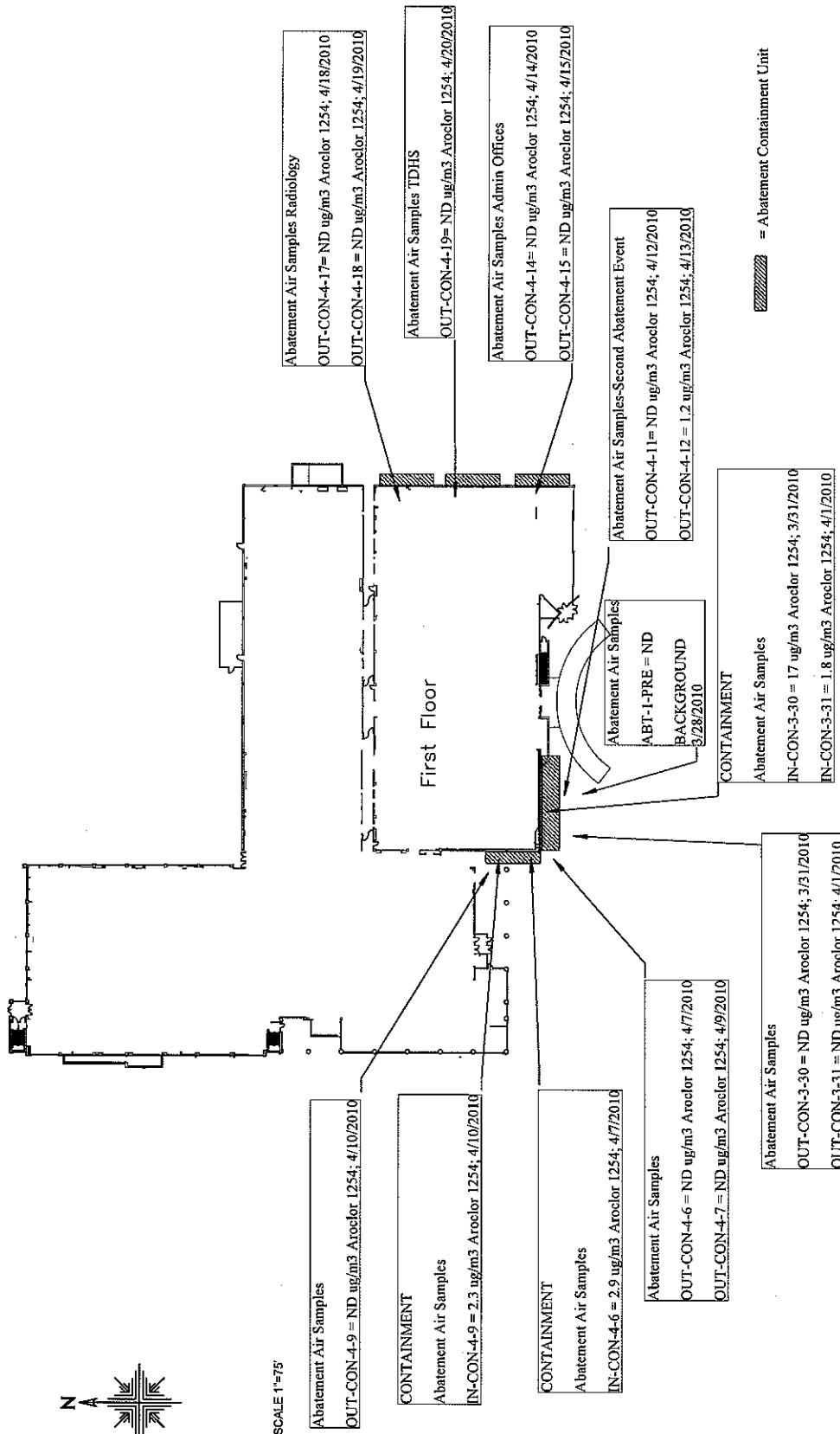
PCB Post Abatement; Confirmation Concrete Wall Sampling

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SCALE 1"=75'



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University Medical Center
El Paso, Texas

PCB Air Monitoring Results During Abatement Events

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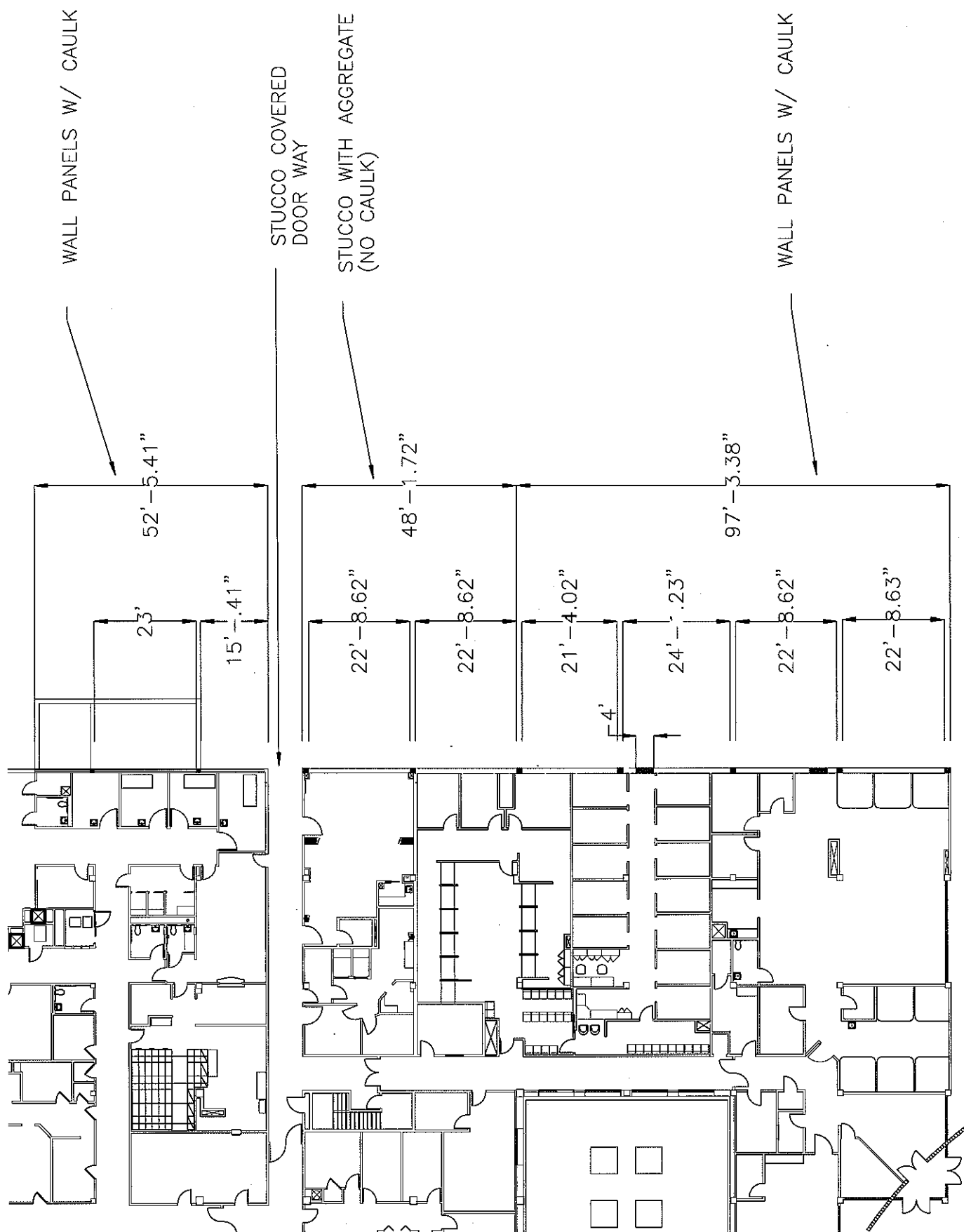




FIGURE 1. CONSTRUCTION OF CONTAINMENT UNIT SOUTH WALL



FIGURE 2. CONTAINMENT UNIT SOUTH WALL



FIGURE 3. SEALING BACKSIDE OF CONTAINMENT UNIT SOUTH WALL

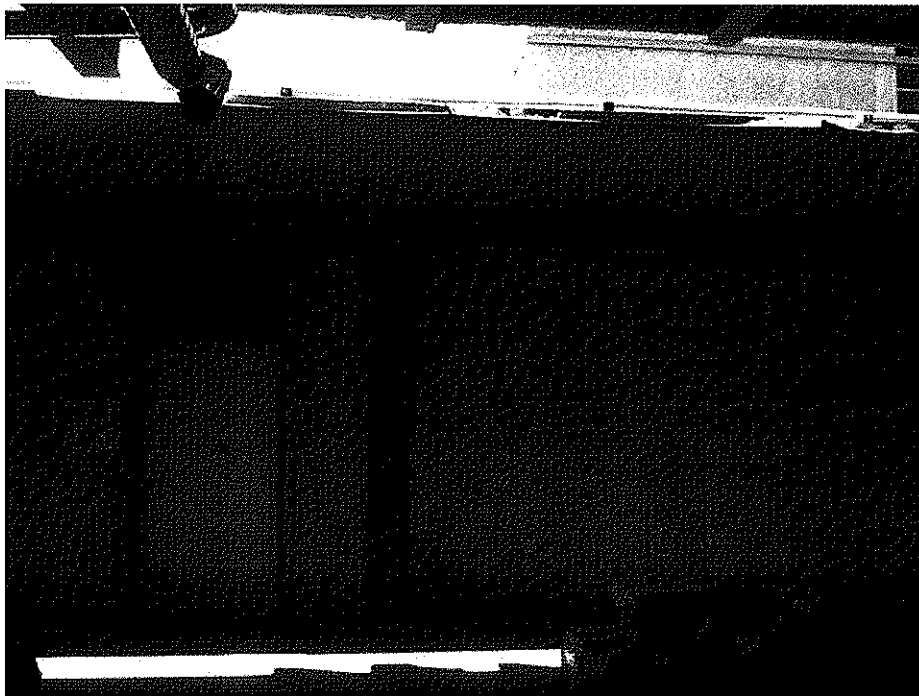


FIGURE 4. EAST WALL

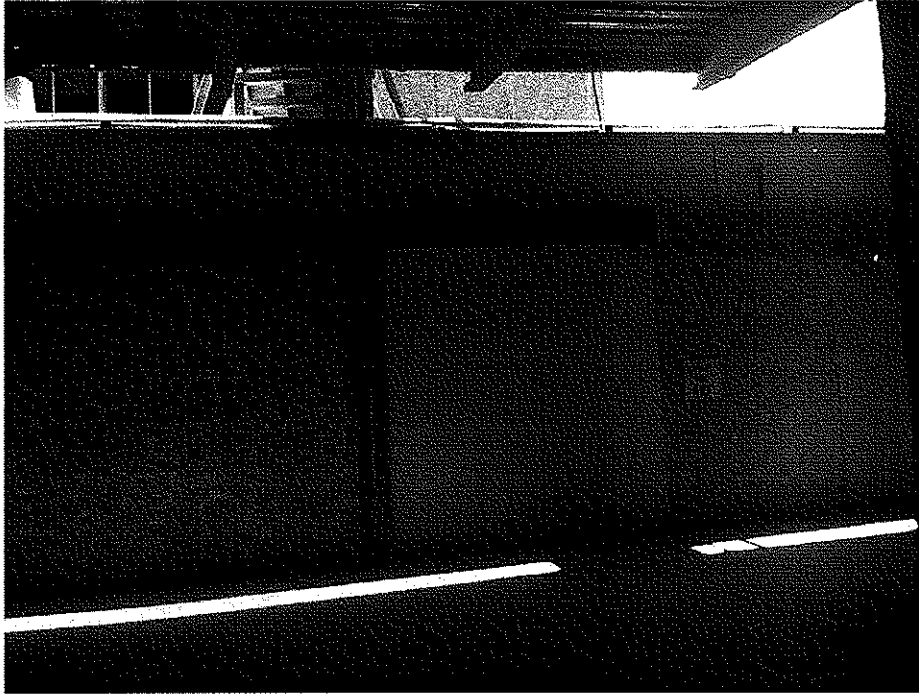


FIGURE 5. CONCRETE COVER FORMER ENTRANCE EAST WALL

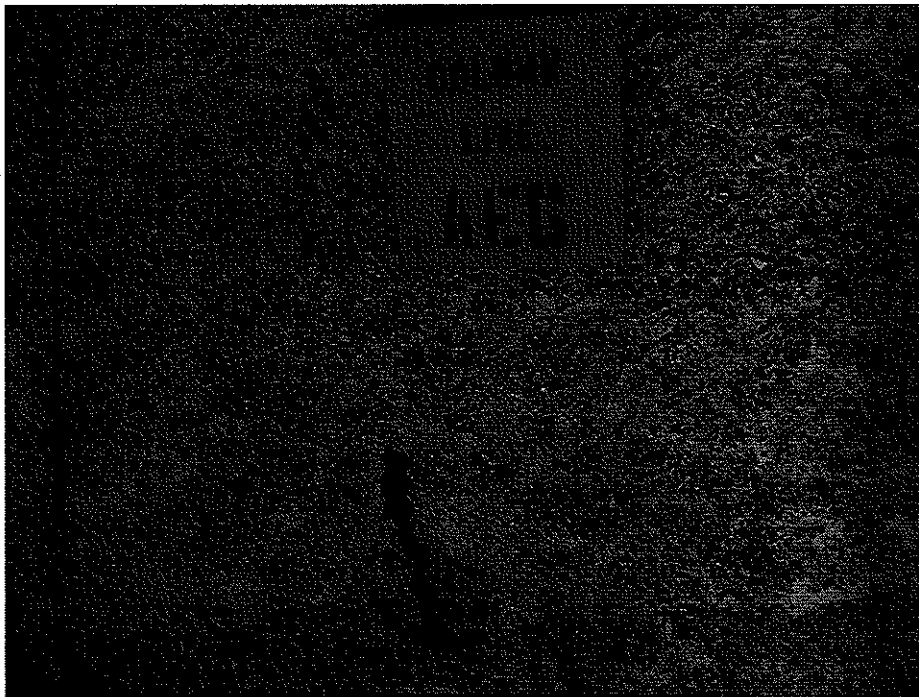


FIGURE 6. NOT THE ORIGINAL WALL, AGGREGATE WITHIN STUCCO, EAST WALL



FIGURE 7. NO CAULKING AT EXPANSION JOINT; AGGREGATE WITHIN STUCCO, EAST WALL

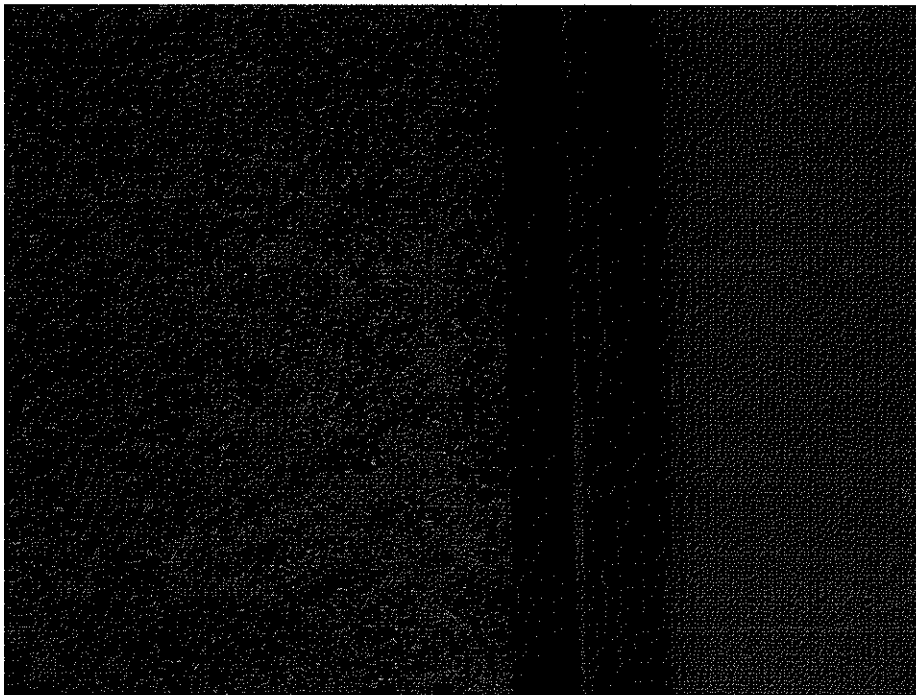


FIGURE 8. END OF THE ORIGINAL WALL, REMAINING SECTION OF WALL WAS RECONSTRUCTED,
EAST WALL (NORTH SIDE)

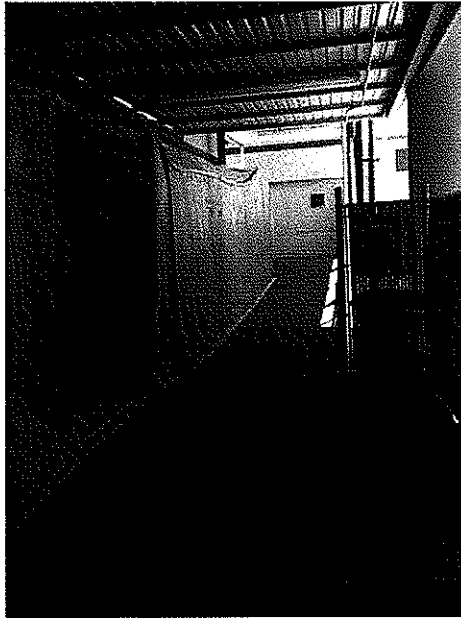


FIGURE 9. CONTAINMENT UNIT WEST WALL (SOUTH SECTION)



FIGURE 10. CONTAINMENT UNIT WEST WALL (SOUTH SECTION)

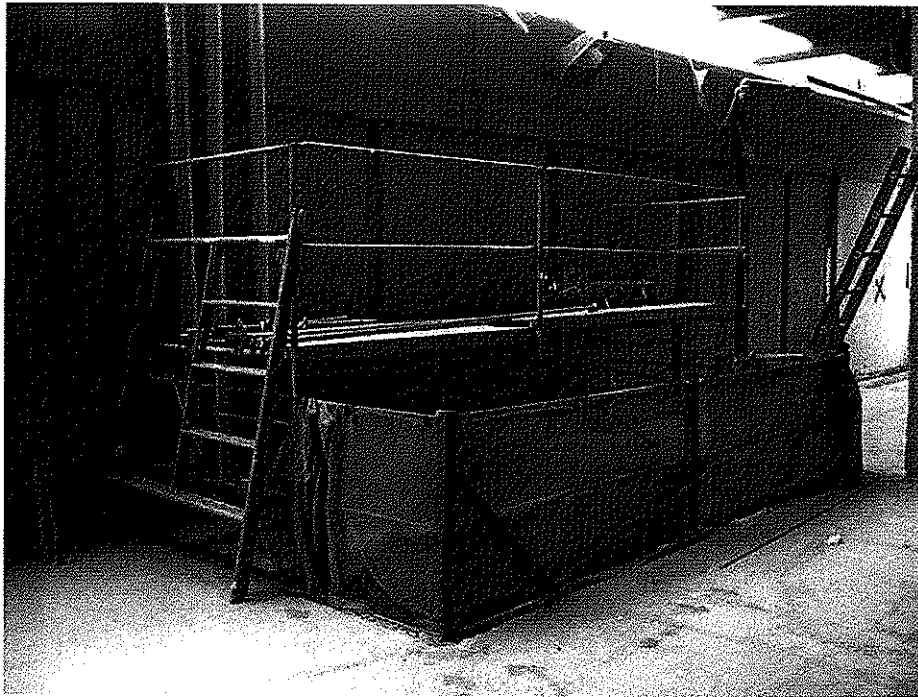


FIGURE 11. SCAFFOLDING OVER OPENING IN FLOOR EAST WALL (NORTH SECTION)



FIGURE 12. POST ABATEMENT, REMOVAL OF 3" SECTION ALONG EXPANSION JOINT EAST WALL



FIGURE 13. POST ABATEMENT, REMOVAL OF 3" SECTION AT COLUMN EAST WALL



FIGURE 14. ABATEMENT CONTAINMENT UNIT EAST WALL (SOUTH SECTION)



FIGURE 15. POST DATA LOGGER FOR NEGATIVE PRESSURE ON HEPA FILTER EAST WALL



FIGURE 16. *PCB bulk product waste*



FIGURE 17. *PCB remediation waste*



FIGURE 18. ROLL OFF FOR *PCB bulk product waste*

Table 1. Caulk and Exterior Wall Sampled

Building	Building Face	Floor	Location Description	Material Sampled	Xenco 0506/30/2009	Aroclor 1254 ug/Kg	Alpha June 30, 2009	Aroclor 1254 ug/Kg	Columbia 02/02/2010- 03/05/10	Aroclor 1254 ug/Kg	Second Sampling
Tower	South	First	Zone B Hospital Entrance (side)	Caulk Sealant ¹ Wall Panel ²	850-527-01	109,000,000	THTB-862-01	27,500,000		Broken in transit	Confirmation
Tower	North	First	Adjacent to Transformer	Caulk Sealant ¹ Wall Panel ²			THTB-862-02	586			Additional
Tower	East	Second	Mechanical Room Exterior	Caulk Sealant ¹ Wall Panel ²	850-527-02	60,300,000	THTB-862-09	ND			Additional
Tower	West	Fourth	East of Heliport (North Side)	Caulk Sealant ¹ Wall Panel ²	850-527-03	122,000,000	THTB-862-10				Additional
Tower	West	Seventh	At Exterior Stairway	Caulk Sealant ¹ Wall Panel ²	850-527-04	39,900,000	THTB-862-03	1,860,000			Additional
Tower	South	Eighth	Window Still	Caulk Sealant ¹ Wall Panel ²	850-527-05		THTB-862-08	118,000	UMC-CLK-1	65,000,000	Confirmation
Tower	West	Eighth	Window Still Wall Panel below sill	Caulk Sealant ¹ Wall Panel ⁴	850-527-06	97,900	THTB-862-04	10,700,000			Confirmation
Tower	West	Fourth	East of Heliport (South Side)	Caulk Sealant ¹			THTB-862-05	1,050,000			Additional
Tower	South	First	Zone B Hospital Entrance (Front)	Wall Panel ⁴ Wall Panel ⁴ Wall Panel ⁴ Caulk Sealant ³			THTB-862-06 THTB-862-07	ND ND	UMC-CLK-2	22,000,000	Additional
									UMC-CONC-1	ND	Additional
									UMC-CONC-2	370	Additional
									UMC-CONC-3	24,000	Additional
									UMC-CONC-4	58,000,000	Additional

Table 2. Risk Assessment

Building	Building Face	Floor	Location Description	Material Sampled	Xenco May 27, 2009	Alpha June 30, 2009	Possible Exposure Pathway			
							Public, Dermal, ingestion or inhalation	Deteriorating Caulk	High Exposure	Highest concern
Tower	South	First	Zone B Hospital Entrance	Caulk Sealant ¹	850-527-01	THTB-862-01	Public, Dermal, ingestion or inhalation	Deteriorating Caulk	Moderate exposure	Highest concern
Tower	North	First	Adjacent to Transformer	Caulk Sealant ¹		THTB-862-09	Public, Dermal, ingestion or inhalation	Deteriorating Caulk	Infrequent exposure	Medium concern
Tower	East	Second	Mechanical Room Exterior	Caulk Sealant ¹	850-527-02		Worker, Dermal, ingestion or inhalation	Deteriorating Caulk	Infrequent exposure	Medium concern
Tower	West	Fourth	East of Heliport	Caulk Sealant ¹	850-527-03		Worker, Dermal, ingestion or inhalation	Deteriorating Caulk	Infrequent exposure	Medium concern
Tower	West	Seventh	At Exterior Stairway	Caulk Sealant ¹	850-527-04	THTB-862-04	Worker, Dermal, ingestion or inhalation	Deteriorating Caulk	Infrequent exposure	Medium concern
				Caulk Sealant ³	850-527-05			Intact caulk	Infrequent exposure	Lower concern
Tower	South	Eighth	Window Sill	Caulk Sealant ¹	850-527-06	THTB-862-06	Worker, Dermal, ingestion or inhalation	Deteriorating Caulk	Infrequent exposure	Medium concern

¹ Caulk Sealant=weather sealant located between wall panels; White Caulk, Appears to be the original caulk² Wall Panel=Pre-cast tilt up exterior panel consisting of 1" crushed river gravel in a concrete matrix (Expansion Joint)³ Clear Caulk, Appears to be caulking repairs⁴ Wall Panel= exterior panel with a stucco cover⁵ defined at 40 CFR § 761.3.⁶ defined at 40 CFR § 761.3.

Table. 3 Wipe Sampling

Building	Area	Floor	Location Description	Sample Name	Material Sampled	MRL ug/WIPE	Aroclor 1254 ug/WIPE	Date Collected	Dilution Factor	EPA Method
Tower	Corridor (South Side)	First	Air Intake Duct	UMC-WP-1	Surface of Air Duct	0.5	ND	2/10/2010	1	8082
Tower	Corridor (North Side)	First	Air Intake Duct	UMC-WP-2	Surface of Air Duct	0.5	ND	2/10/2010	1	8082

Table 4 Air Sampling

Building	Area	Floor	Location Description	Sample Name	Material Sampled	MRL ng/Cartridge	Aroclor 1254 ng/Cartridge	Date Collected	MRL ug/m3	Aroclor 1254 ug/m3	Volume Sampled m3	EPA Method
Tower	Maternity	Third	Nurse Station Above common desk	UMC-1	Ambient Air	500	ND	1/30/2010	0.18	ND	2.8445	10-A
Tower	Surgical	Fifth	Nurse Station Above common desk	UMC-2	Ambient Air	500	ND	1/31/2010	0.18	ND	2.8383	10-A
Tower	Pediatrics	Seventh	Break room / file room	UMC-3	Ambient Air	500	880	2/1/2010	0.19	0.33	2.6619	10-A

Table 4-a Air Sampling (Abatement) Reported for Aroclor 1254 (only Aroclor reported with detectable quantities)

Building	Area	Floor	Location Description	Sample Name	Material Sampled	MRL ng/Cartridge	Aroclor 1254 ng/Cartridge	Date Collected	MRL ug/m3	Aroclor 1254 ug/m3	Volume Sampled m3	EPA Method
Tower	Exterior of New ER Office	First	Abatement New ER Pre-Abatement Air Sample	ABT-1-PRE	Ambient Air	500	ND	3/28/2010	0.17	ND	2.955	10-A
Tower	Exterior of New ER Office	First	Abatement-South Wall (Inside Containment)	IN-CON-3-30	Ambient Air	500	55,000	3/31/2010	0.15	17	3.2737	10-A
Tower	Exterior of New ER Office	First	Abatement-South Wall (Outside Containment)	OUT-CON-3-30	Ambient Air	500	ND	3/31/2010	0.15	ND	3.2615	10-A
Tower	Exterior of New ER Office	First	Abatement-South Wall (Outside Containment)	OUT-CON-3-31	Ambient Air	500	ND	4/1/2010	0.15	ND	3.273	10-A
Tower	Exterior of New ER Office	First	Abatement-South Wall (Inside Containment)	IN-CON-3-31	Ambient Air	500	5,700	4/1/2010	0.16	1.8	3.2049	10-A
Tower	Exterior of New ER Office	First	Abatement-South Wall (Outside Containment)	OUT-CON-4-6	Ambient Air	500	ND	4/7/2010	0.16	ND	3.1921	10-A
Tower	Exterior of New ER Office	First	Abatement-South Wall (Outside Containment)	IN-CON-4-6	Ambient Air	500	9,300	4/7/2010	0.16	2.9	3.2232	10-A
Tower	Exterior of New ER Office	First	Abatement-South Wall (Inside Containment)	IN-CON-4-7	Ambient Air	Canceled	Canceled	4/9/2010	Canceled	Canceled		10-A
Tower	Exterior of New ER Office	First	Abatement-South Wall (Outside Containment)	OUT-CON-4-7	Ambient Air	500	ND	4/9/2010	0.17	ND	2.9712	10-A
Tower	Exterior of New ER Office	First	Abatement-South Wall (Inside Containment)	IN-CON-4-9	Ambient Air	500	7,200	4/10/2010	0.16	2.3	3.2024	10-A
Tower	Exterior of New ER Office	First	Abatement-South Wall (Outside Containment)	OUT-CON-4-9	Ambient Air	500	ND	4/10/2010	0.17	ND	2.9804	10-A
Tower	Exterior of New ER Office	First	Abatement-South Wall (Outside Containment)	OUT-CON-4-11	Ambient Air	500	ND	4/12/2010	0.15	ND	3.291	10-A
Tower	Exterior of New ER Office	First	Abatement-South Wall (Outside Containment)	OUT-CON-4-12	Ambient Air	500	4,100	4/13/2010	0.15	1.2	3.3059	10-A
Tower	Exterior of Admin Office	First	Abatement-Admin Office (Outside Containment)	OUT-CON-4-14	Ambient Air	500	ND	4/14/2010	0.16	ND	3.174	10-A
Tower	Exterior of Admin Office	First	Abatement-Admin Office (Outside Containment)	OUT-CON-4-15	Ambient Air	500	ND	4/15/2010	0.17	ND	3.0083	10-A
Tower	Exterior of RAD. Ultrasound Rm.	First	Abatement-Radiology (Outside Containment)	OUT-CON-4-17	Ambient Air	500	ND	4/18/2010	0.16	ND	3.1826	10-A
Tower	Exterior of RAD. Ultrasound Rm.	First	Abatement-Radiology (Outside Containment)	OUT-CON-4-18	Ambient Air	500	ND	4/19/2010	0.16	ND	3.1866	10-A
Tower	Exterior of TDHS Office	First	Abatement-TDHS Office (Outside Containment)	OUT-CON-4-19	Ambient Air	500	ND	4/20/2010	0.17	ND	2.9665	10-A

Table 4-b Wall Concrete Confirmation Samples (Post-Abatement) left in place Reported for Aroclor 1254 (only Aroclor reported with detectable quantities)

Building	Area	Floor	Location Description	Sample Name	Material Sampled	MRL	Aroclor 1254	Date Collected	Dilution Factor	EPA Method
Prior to removal of 3" of concrete from edge of expansion joint										
Tower	Exterior of New ER Office	First	South Wall (East Section)	ACS-1	Concrete	9.9	62	4/1/2010	100	EPA 3541 & 8082
Tower	Exterior of New ER Office	First	South Wall (West Section)	ACS-2	Concrete	9.9	120	4/1/2010	100	EPA 3541 & 8082
After removal of 3" of concrete from edge of expansion joint										
Tower	Exterior of New ER Office	First	West Wall (South Section)	ACS-3	Concrete	0.022	0.17	4/8/2010	1	EPA 3541 & 8082
Tower	Exterior of New ER Office	First	West Wall (North Section)	ACS-4	Concrete	0.054	0.078	4/13/2010	1	EPA 3541 & 8082
Tower	Exterior of New ER Office	First	South Wall (East Section)	ACS-5	Concrete	0.052	0.650	4/13/2010	1	EPA 3541 & 8082
Tower	Exterior of Admin Office	First	East Wall (South Section)	ACS-6	Concrete	0.097	ND	5/19/2010	1	EPA 3541 & 8082
Tower	Exterior of Radiology	First	East Wall (North Section)	ACS-7	Concrete	0.098	ND	5/19/2010	1	EPA 3541 & 8082

Target clean-up level is less than 1.0 mg/Kg

All remaining in-place concrete walls after abatement meets clean up levels

March 8, 2010

Analytical Report for Service Request No: K1001091

Robert Daniels
Air, Soil, & Water Environmental, Inc. (ASW)
1615 Arizona Ave
El Paso, TX 79902

RE: University Medical Center

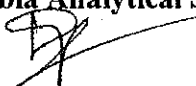
Dear Robert:

Enclosed are the results of the samples submitted to our laboratory on February 05, 2010. For your reference, these analyses have been assigned our service request number K1001091.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3281. You may also contact me via Email at PDivvela@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.
Pradeep Divvela
Project Chemist

PD/lb

Page 1 of 18

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value that was detected outside the quantitation range.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Air, Soil & Water Environmental, Inc.
Project: University Medical Center
Sample Matrix: Wipe/Misc. Solid

Service Request No.: K1001091
Date Received: 02/05/10

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Matrix/Duplicate Matrix Spike (MS/DMS), and Laboratory/Duplicate Laboratory Control Sample (LCS/DLCS).

Sample Receipt

Eight samples were received for analysis at Columbia Analytical Services on 02/05/10. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

Samples 03, 04, 05 and 06 could not be prepped/analyzed because of insufficient sample mass available. Client had been notified of this discrepancy.

PCB Aroclors by EPA Method 8082 – Misc. Solid

Surrogate Exceptions:

The recovery of the surrogate Decachlorobiphenyl in sample UMC-WP-1 was outside the control limits listed in the results summary. The limits are default values temporarily in use until sufficient data points are generated to calculate statistical control limits. Based on the method and historic data, the recoveries observed were in the range expected for this procedure. No further corrective action was taken.

The control criteria for Decachlorobiphenyl in samples UMC-CLK-1 and UMC-CLK-2 were not applicable. The analysis of the samples required a dilution, which resulted in a surrogate concentration below the reporting limit. No further corrective action was appropriate.

Elevated Detection Limits:

Samples UMC-CLK-1 and UMC-CLK-2 required dilution due to the presence of elevated levels of target analyte. The reporting limits were adjusted to reflect the dilution.

Sample Notes and Discussion:

The samples in this data set appeared to have been subjected to environmental stresses such as weathering, causing pattern degradation and changing the peak ratios. When pattern degradation occurs, correct identification and quantitative analysis of the individual Aroclors can be subjective. Care was taken to report the Aroclor with the best pattern match. Aroclor 1254 was reported for this data set.

Approved by _____



Date _____


03/08/10

PCB Aroclors by EPA Method 8082 – Wipe

Surrogate Exceptions:

The recovery of the surrogate Decachlorobiphenyl in sample UMC-WP-1 was outside the control limits listed in the results summary. The limits are default values temporarily in use until sufficient data points are generated to calculate statistical control limits. Based on the method and historic data, the recoveries observed were in the range expected for this procedure. No further corrective action was taken.

No other anomalies associated with the analysis of these samples were observed.

Approved by  Date 03/08/10

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Wipe

Service Request: K1001091
Date Collected: 02/02/2010
Date Received: 02/05/2010

Polychlorinated Biphenyls(PCBs)

Sample Name: UMC-WP-1
Lab Code: K1001091-001
Extraction Method: EPA 3541
Analysis Method: 8082

Units: ug/WIPE
Basis: Wet
Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	0.50	1	02/10/10	02/12/10	KWG1001204	
Aroclor 1221	ND U	1.0	1	02/10/10	02/12/10	KWG1001204	
Aroclor 1232	ND U	0.50	1	02/10/10	02/12/10	KWG1001204	
Aroclor 1242	ND U	0.50	1	02/10/10	02/12/10	KWG1001204	
Aroclor 1248	ND U	0.50	1	02/10/10	02/12/10	KWG1001204	
Aroclor 1254	ND U	0.50	1	02/10/10	02/12/10	KWG1001204	
Aroclor 1260	ND U	0.50	1	02/10/10	02/12/10	KWG1001204	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	65	70-130	02/12/10	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Wipe

Service Request: K1001091
Date Collected: 02/02/2010
Date Received: 02/05/2010

Polychlorinated Biphenyls(PCBs)

Sample Name: UMC-WP-2
Lab Code: K1001091-002
Extraction Method: EPA 3541
Analysis Method: 8082

Units: ug/WIPE
Basis: Wet
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.50	1	02/10/10	02/12/10	KWG1001204	
Aroclor 1221	ND	U	1.0	1	02/10/10	02/12/10	KWG1001204	
Aroclor 1232	ND	U	0.50	1	02/10/10	02/12/10	KWG1001204	
Aroclor 1242	ND	U	0.50	1	02/10/10	02/12/10	KWG1001204	
Aroclor 1248	ND	U	0.50	1	02/10/10	02/12/10	KWG1001204	
Aroclor 1254	ND	U	0.50	1	02/10/10	02/12/10	KWG1001204	
Aroclor 1260	ND	U	0.50	1	02/10/10	02/12/10	KWG1001204	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	73	70-130	02/12/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Misc. solid

Service Request: K1001091
Date Collected: 02/02/2010
Date Received: 02/05/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: UMC-CLK-1
Lab Code: K1001091-007
Extraction Method: EPA 3541
Analysis Method: 8082

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	7700	50000	02/17/10	02/26/10	KWG1001464	
Aroclor 1221	ND U	16000	50000	02/17/10	02/26/10	KWG1001464	
Aroclor 1232	ND U	7700	50000	02/17/10	02/26/10	KWG1001464	
Aroclor 1242	ND U	7700	50000	02/17/10	02/26/10	KWG1001464	
Aroclor 1248	ND U	7700	50000	02/17/10	02/26/10	KWG1001464	
Aroclor 1254	65000 D	7700	50000	02/17/10	02/26/10	KWG1001464	
Aroclor 1260	ND U	7700	50000	02/17/10	02/26/10	KWG1001464	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	0	35-133	02/26/10	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Misc. solid

Service Request: K1001091
Date Collected: 02/02/2010
Date Received: 02/05/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: UMC-CLK-2
Lab Code: K1001091-008
Extraction Method: EPA 3541
Analysis Method: 8082

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	1700	10000	02/17/10	02/26/10	KWG1001464	
Aroclor 1221	ND U	3400	10000	02/17/10	02/26/10	KWG1001464	
Aroclor 1232	ND U	1700	10000	02/17/10	02/26/10	KWG1001464	
Aroclor 1242	ND U	1700	10000	02/17/10	02/26/10	KWG1001464	
Aroclor 1248	ND U	1700	10000	02/17/10	02/26/10	KWG1001464	
Aroclor 1254	22000 D	1700	10000	02/17/10	02/26/10	KWG1001464	
Aroclor 1260	ND U	1700	10000	02/17/10	02/26/10	KWG1001464	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	890	35-133	02/26/10	Outside Control Limits

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Wipe

Service Request: K1001091
Date Collected: NA
Date Received: NA

Polychlorinated Biphenyls(PCBs)

Sample Name: Method Blank
Lab Code: KWG1001204-3
Extraction Method: EPA 3541
Analysis Method: 8082

Units: ug/WIPE
Basis: Wet
Level: Low

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	0.50	1	02/10/10	02/12/10	KWG1001204	
Aroclor 1221	ND U	1.0	1	02/10/10	02/12/10	KWG1001204	
Aroclor 1232	ND U	0.50	1	02/10/10	02/12/10	KWG1001204	
Aroclor 1242	ND U	0.50	1	02/10/10	02/12/10	KWG1001204	
Aroclor 1248	ND U	0.50	1	02/10/10	02/12/10	KWG1001204	
Aroclor 1254	ND U	0.50	1	02/10/10	02/12/10	KWG1001204	
Aroclor 1260	ND U	0.50	1	02/10/10	02/12/10	KWG1001204	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	78	70-130	02/12/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Misc. solid

Service Request: K1001091
Date Collected: NA
Date Received: NA

Polychlorinated Biphenyls (PCBs)

Sample Name: Method Blank
Lab Code: KWG1001464-4

Units: mg/Kg
Basis: Wet

Extraction Method: EPA 3541
Analysis Method: 8082

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.082	1	02/17/10	02/26/10	KWG1001464	
Aroclor 1221	ND	U	0.17	1	02/17/10	02/26/10	KWG1001464	
Aroclor 1232	ND	U	0.082	1	02/17/10	02/26/10	KWG1001464	
Aroclor 1242	ND	U	0.082	1	02/17/10	02/26/10	KWG1001464	
Aroclor 1248	ND	U	0.082	1	02/17/10	02/26/10	KWG1001464	
Aroclor 1254	ND	U	0.082	1	02/17/10	02/26/10	KWG1001464	
Aroclor 1260	ND	U	0.082	1	02/17/10	02/26/10	KWG1001464	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	68	35-133	02/26/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Wipe

Service Request: K1001091**Surrogate Recovery Summary
Polychlorinated Biphenyls(PCBs)**

Extraction Method: EPA 3541
Analysis Method: 8082

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
UMC-WP-1	K1001091-001	65 *
UMC-WP-2	K1001091-002	73
UMC-CLK-1	K1001091-007	0 D #
UMC-CLK-2	K1001091-008	890 D #
Method Blank	KWG1001204-3	78
Method Blank	KWG1001464-4	68
Batch QC	K1001280-001	75
Batch QCMS	KWG1001464-1	80
Batch QCDMS	KWG1001464-2	80
Lab Control Sample	KWG1001204-1	82
Lab Control Sample Dup	KWG1001204-2	78
Lab Control Sample	KWG1001464-3	69

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 35-133

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Solid

Service Request: K1001091
Date Extracted: 02/17/2010
Date Analyzed: 02/26/2010

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name: Batch QC
Lab Code: K1001280-001
Extraction Method: EPA 3541
Analysis Method: 8082

Units: mg/Kg
Basis: Wet
Level: Low
Extraction Lot: KWG1001464

Analyte Name	Sample Result	Batch QCMS KWG1001464-1 Matrix Spike			Batch QCDMS KWG1001464-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Aroclor 1016	ND	0.485	0.811	60	0.409	0.824	50	27-174	17	40
Aroclor 1260	ND	0.696	0.811	86	0.566	0.824	69	20-185	21	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Air, Soil, & Water Environmental, Inc. ()
Project: University Medical Center
Sample Matrix: Wipe

Service Request: K1001091
Date Extracted: 02/10/2010
Date Analyzed: 02/12/2010

**Lab Control Spike/Duplicate Lab Control Spike Summary
 Polychlorinated Biphenyls(PCBs)**

Extraction Method: EPA 3541
Analysis Method: 8082

Units: ug/WIPE
Basis: Wet
Level: Low
Extraction Lot: KWG1001204

Analyte Name	Lab Control Sample KWG1001204-1 Lab Control Spike			Lab Control Sample Dup KWG1001204-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Aroclor 1016	9.36	10.0	94	8.34	10.0	83	70-130	12	40
Aroclor 1260	9.30	10.0	93	8.47	10.0	85	70-130	9	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Misc. solid

Service Request: K1001091
Date Extracted: 02/17/2010
Date Analyzed: 02/26/2010

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541
Analysis Method: 8082

Units: mg/Kg
Basis: Wet
Level: Low
Extraction Lot: KWG1001464

Lab Control Sample
KWG1001464-3
Lab Control Spike

Analyte Name	Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
Aroclor 1016	0.616	1.00	62	48-121
Aroclor 1260	0.647	1.00	65	53-129

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



CHAIN OF CUSTODY

SR#: K1001091

PAGE 1 OF 1 COC #

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PROJECT NAME		PROJECT NUMBER		PROJECT MANAGER		COMPANY ADDRESS		CITY/STATE/ZIP		E-MAIL ADDRESS		PHONE #		SAMPLER'S SIGNATURE		NUMBER OF CONTAINERS		REMARKS	
SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX															
UMC-CP-1	2-2-01	12:15	Gate 1	Gate 1															
UMC-CP-2	2-2-01	12:35	↓	↓															
UMC-CONC-1	2-2-01	2:30	CONC-1	CONC-1															
UMC-CONC-2	2-2-01	2:41	↓	↓															
UMC-CONC-3	3:05		↓	↓															
UMC-CONC-4	3:15		↓	↓															
UMC-CLK-1	3:31		CLK-1	CLK-1															
UMC-CLK-2	3:40		↓	↓															

REPORT REQUIREMENTS		INVOICE INFORMATION		TURNAROUND REQUIREMENTS		RECEIVED BY:		RELINQUISHED BY:		RECEIVED BY:	
I. Routine Report: Method Blank, Surrogate, as required		P.O. # Bill To:		24 hr. 48 hr. 5 Day Standard (10-15 working days) Provide FAX Results		Signature Date/Time		Signature Date/Time		Signature Date/Time	
II. Report Dup., MS, MSD as required											
III. Data Validation Report (includes all raw data)											
IV. CLP Deliverable Report											
V. EDD											

Circle which metals are to be analyzed:
Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg
Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

Requested Report Date

Signature: Robert Daniels Date/Time: 2-4-01/3:30pm
Printed Name: Robert Daniels Firm: ASCS

Signature: John Jones Date/Time: 2/5/01 10:30
Printed Name: John Jones Firm: CAS

Signature: _____ Date/Time: _____
Printed Name: _____ Firm: _____

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC PD

Client / Project: ASW Service Request K10 01091

Received: 2/5/10 Opened: 2/5/10 By: Jow

1. Samples were received via? Mail Fed Ex UPS DHL PDX Courier Hand Delivered
2. Samples were received in: (circle) Cooler Box Envelope Other NA
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1 front
- If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID	Tracking Number	NA	Filed
<u>2.3</u>	<u>7.9</u>	<u>259</u>	<u>NA</u>	<u>12665 F900119893862</u>		

7. Packing material used: Inserts Baggies Bubble Wrap Gel Packs Wet Ice Sleeves Other
8. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
9. Did all bottles arrive in good condition (unbroken)? Indicate in the table below. NA Y N
10. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
11. Did all sample labels and tags agree with custody papers? Indicate major discrepancies in the table on page 2. NA Y N
12. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
13. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N
14. Were VOA vials received without headspace? Indicate in the table below. NA Y N
15. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: *Received 2x 40ml VOA's with wipes - No identification on labels. (Trip Blanks?) or extra un-used containers?

March 11, 2010

Analytical Report for Service Request No: K1002094

Robert Daniels
Air, Soil, & Water Environmental, Inc. (ASW)
1615 Arizona Avenue
El Paso, TX 79902

RE: University Medical Center

Dear Robert:

Enclosed are the results of the rush samples submitted to our laboratory on March 08, 2010. For your reference, these analyses have been assigned our service request number K1002094.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3281. You may also contact me via Email at PDivvela@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.
Pradeep Divvela
Project Chemist

PD/rh

Page 1 of 9

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value that was detected outside the quantitation range.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Air, Soil & Water Environmental, Inc. (ASW) Service Request No.: K1002094
Project: University Medical Center Date Received: 03/08/10
Sample Matrix: Misc. Solid

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory/Duplicate Laboratory Control Sample (LCS/DLCS).

Sample Receipt

Four solid samples were received for analysis at Columbia Analytical Services on 03/08/10. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at room temperature upon receipt at the laboratory.

PCB Aroclors by EPA Method 8082

Surrogate Exceptions:

The control criteria for Decachlorobiphenyl in sample UMC-CONC-4 were not applicable. The analysis of the sample required a dilution, which resulted in a surrogate concentration below the reporting limit. No further corrective action was appropriate.

Elevated Detection Limits:

Samples UMC-CONC-3 and UMC-CONC-4 required dilution due to the presence of elevated levels of target analytes. A semi-quantitative screen was performed prior to final analysis. The results of the screening indicated the need to perform a dilution. The reporting limits were adjusted to reflect the dilution.

Sample Notes and Discussion:

The samples in this data set appeared to have been subjected to environmental stresses such as weathering, causing pattern degradation and changing the peak ratios. When pattern degradation occurs, correct identification and quantitative analysis of the individual Aroclors can be subjective. Care was taken to report the Aroclor with the best pattern match. Aroclor 1254 was reported for this data set.

No other anomalies associated with the analysis of these samples were observed.

Approved by _____



Date _____

03/11/10

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Misc. solid

Service Request: K1002094
Date Collected: 03/05/2010
Date Received: 03/08/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: UMC-CONC-1
Lab Code: K1002094-001
Extraction Method: EPA 3550B
Analysis Method: 8082

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.76	1	03/09/10	03/11/10	KWG1001977	
Aroclor 1221	ND	U	1.6	1	03/09/10	03/11/10	KWG1001977	
Aroclor 1232	ND	U	0.76	1	03/09/10	03/11/10	KWG1001977	
Aroclor 1242	ND	U	0.76	1	03/09/10	03/11/10	KWG1001977	
Aroclor 1248	ND	U	0.76	1	03/09/10	03/11/10	KWG1001977	
Aroclor 1254	ND	U	0.76	1	03/09/10	03/11/10	KWG1001977	
Aroclor 1260	ND	U	0.76	1	03/09/10	03/11/10	KWG1001977	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	119	35-133	03/11/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Air, Soil, & Water Environmental, Inc. (
 Project: University Medical Center
 Sample Matrix: Misc. solid

Service Request: K1002094
 Date Collected: 03/05/2010
 Date Received: 03/08/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: UMC-CONC-2
 Lab Code: K1002094-002
 Extraction Method: EPA 3550B
 Analysis Method: 8082

Units: mg/Kg
 Basis: Wet
 Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.26	1	03/09/10	03/11/10	KWG1001977	
Aroclor 1221	ND	U	0.52	1	03/09/10	03/11/10	KWG1001977	
Aroclor 1232	ND	U	0.26	1	03/09/10	03/11/10	KWG1001977	
Aroclor 1242	ND	U	0.26	1	03/09/10	03/11/10	KWG1001977	
Aroclor 1248	ND	U	0.26	1	03/09/10	03/11/10	KWG1001977	
Aroclor 1254	0.37		0.26	1	03/09/10	03/11/10	KWG1001977	
Aroclor 1260	ND	U	0.26	1	03/09/10	03/11/10	KWG1001977	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	96	35-133	03/11/10	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Misc. solid

Service Request: K1002094
Date Collected: 03/05/2010
Date Received: 03/08/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: UMC-CONC-3
Lab Code: K1002094-003
Extraction Method: EPA 3550B
Analysis Method: 8082

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	1.5	10	03/09/10	03/11/10	KWG1001977	
Aroclor 1221	ND	U	3.0	10	03/09/10	03/11/10	KWG1001977	
Aroclor 1232	ND	U	1.5	10	03/09/10	03/11/10	KWG1001977	
Aroclor 1242	ND	U	1.5	10	03/09/10	03/11/10	KWG1001977	
Aroclor 1248	ND	U	1.5	10	03/09/10	03/11/10	KWG1001977	
Aroclor 1254	24	D	1.5	10	03/09/10	03/11/10	KWG1001977	
Aroclor 1260	ND	U	1.5	10	03/09/10	03/11/10	KWG1001977	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	131	35-133	03/11/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Misc. solid

Service Request: K1002094
Date Collected: 03/05/2010
Date Received: 03/08/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: UMC-CONC-4
Lab Code: K1002094-004
Extraction Method: EPA 3550B
Analysis Method: 8082

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	6400	50000	03/09/10	03/11/10	KWG1001977	
Aroclor 1221	ND	U	13000	50000	03/09/10	03/11/10	KWG1001977	
Aroclor 1232	ND	U	6400	50000	03/09/10	03/11/10	KWG1001977	
Aroclor 1242	ND	U	6400	50000	03/09/10	03/11/10	KWG1001977	
Aroclor 1248	ND	U	6400	50000	03/09/10	03/11/10	KWG1001977	
Aroclor 1254	58000	D	6400	50000	03/09/10	03/11/10	KWG1001977	
Aroclor 1260	ND	U	6400	50000	03/09/10	03/11/10	KWG1001977	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	0	35-133	03/11/10	Outside Control Limits

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Misc. solid

Service Request: K1002094
Date Collected: NA
Date Received: NA

Polychlorinated Biphenyls (PCBs)

Sample Name: Method Blank
Lab Code: KWG1001977-3
Extraction Method: EPA 3550B
Analysis Method: 8082

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.10	1	03/09/10	03/10/10	KWG1001977	
Aroclor 1221	ND	U	0.20	1	03/09/10	03/10/10	KWG1001977	
Aroclor 1232	ND	U	0.10	1	03/09/10	03/10/10	KWG1001977	
Aroclor 1242	ND	U	0.10	1	03/09/10	03/10/10	KWG1001977	
Aroclor 1248	ND	U	0.10	1	03/09/10	03/10/10	KWG1001977	
Aroclor 1254	ND	U	0.10	1	03/09/10	03/10/10	KWG1001977	
Aroclor 1260	ND	U	0.10	1	03/09/10	03/10/10	KWG1001977	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	118	35-133	03/10/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Misc. solid

Service Request: K1002094

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3550B
Analysis Method: 8082

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
UMC-CONC-1	K1002094-001	119
UMC-CONC-2	K1002094-002	96
UMC-CONC-3	K1002094-003	131 D
UMC-CONC-4	K1002094-004	0 D #
Method Blank	KWG1001977-3	118
Lab Control Sample	KWG1001977-1	89
Duplicate Lab Control Sample	KWG1001977-2	98

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 35-133

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Misc. solid

Service Request: K1002094
Date Extracted: 03/09/2010
Date Analyzed: 03/10/2010

Lab Control Spike/Duplicate Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3550B
Analysis Method: 8082

Units: mg/Kg
Basis: Wet
Level: Low
Extraction Lot: KWG1001977

Analyte Name	Lab Control Sample KWG1001977-1 Lab Control Spike			Duplicate Lab Control Sample KWG1001977-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Aroclor 1016	1.01	1.00	101	1.15	1.00	115	48-121	13	40
Aroclor 1260	0.978	1.00	98	1.13	1.00	113	53-129	15	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

[illegible]

**Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form**

PC AD

Client / Project: Air, Soil, Water Env. Consult. Service Request K10 02094

Received: 3/8/10 Opened: 3/8/10 By: [Signature]

1. Samples were received via? *Mail* *Fed Ex* UPS *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* Box *Envelope* *Other* NA
3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
- If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID	Tracking Number	NA	Filed
			<u>NA</u>	1ZAW70040182119536		

7. Packing material used. *Inserts* Baggies *Bubble Wrap* *Gel Packs* *Wet Ice* *Sleeves* *Other* _____
8. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
9. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
10. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
11. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
12. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
13. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
14. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
15. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head- space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

April 5, 2010

Analytical Report for Service Request No: K1003107

Robert Daniels
Air, Soil, & Water Environmental, Inc. (ASW)
1615 Arizona Avenue
El Paso, TX 79902

RE: University Medical Center

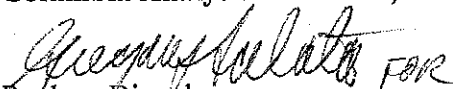
Dear Robert:

Enclosed are the results of the samples submitted to our laboratory on April 02, 2010. For your reference, these analyses have been assigned our service request number K1003107.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3281. You may also contact me via Email at PDivvela@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.
Pradeep Divvela
Project Chemist

PD/lb

Page 1 of 14

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value that was detected outside the quantitation range.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Air, Soil, & Water Environmental, Inc.
Project: University Medical Center
Sample Matrix: Miscellaneous Solid

Service Request No.: K1003107
Date Received: 04/02/10

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Matrix/Duplicate Matrix Spike (MS/DMS), and Laboratory Control Sample (LCS).

Sample Receipt

Two miscellaneous solid samples were received for analysis at Columbia Analytical Services on 04/02/10. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored at room temperature upon receipt at the laboratory.

PCB Aroclors by EPA Method 8082

Continuing Calibration Verification (CCV) Exceptions:

The primary evaluation criterion was exceeded for Aroclor 1016 and Decachlorobiphenyl in CCV 0405F001; and for Aroclor 1016 in CCV 0405F011. In accordance with CAS standard operating procedures, the alternative evaluation specified in the EPA method was performed using the average percent recovery of all analytes in the verification standard. The standard met the alternative evaluation criteria.

The analysis of PCB Aroclors by EPA 8082 requires the use of dual column confirmation. When the CCV criterion is met for both columns, the higher of the two sample results is generally reported. The primary evaluation criteria were not met on the confirmation column for Aroclor 1016 and Decachlorobiphenyl. The results were reported from the column with an acceptable CCV. The data quality was not affected. No further corrective action was necessary.

Surrogate Exceptions:

The control criteria for Decachlorobiphenyl in samples ACS-1, ACS-2, and associated matrix spikes were not applicable. The analysis of the samples required a dilution, which resulted in a surrogate concentration below the reporting limit. No further corrective action was appropriate.

Matrix Spike Recovery Exceptions:

The control criteria for matrix spike/duplicate matrix spike recovery of Aroclor 1016 and Aroclor 1260 for sample ACS-2 were not applicable. The analysis of this sample required a dilution such that the added spike concentration was diluted below the reporting limit. No further corrective action was required.

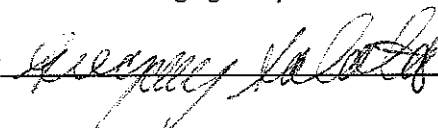
Elevated Detection Limits:

Samples ACS-1, ACS-2, and associated matrix spikes required dilution due to the presence of elevated levels of target analyte. The reporting limits were adjusted to reflect the dilution.

Sample Notes and Discussion:

The samples in this data set appeared to have been subjected to environmental stresses such as weathering, causing pattern degradation and changing the peak ratios. When pattern degradation occurs, correct identification and

Approved by



Date

4/6/10

quantitative analysis of the individual Aroclors can be subjective. Care was taken to report the Aroclor with the best pattern match. Aroclor 1254 was reported for this data set.

No other anomalies associated with the analysis of these samples were observed.

Approved by Gregory Salata Date 4/6/10

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Air, Soil, & Water Environmental, Inc. (
 Project: University Medical Center
 Sample Matrix: Misc. solid

Service Request: K1003107
 Date Collected: 04/01/2010
 Date Received: 04/02/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: ACS-1
 Lab Code: K1003107-001

Units: mg/Kg
 Basis: Wet

Extraction Method: EPA 3541
 Analysis Method: 8082

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	9.9	100	04/02/10	04/05/10	KWG1002875	
Aroclor 1221	ND	U	20	100	04/02/10	04/05/10	KWG1002875	
Aroclor 1232	ND	U	9.9	100	04/02/10	04/05/10	KWG1002875	
Aroclor 1242	ND	U	9.9	100	04/02/10	04/05/10	KWG1002875	
Aroclor 1248	ND	U	9.9	100	04/02/10	04/05/10	KWG1002875	
Aroclor 1254	62	D	9.9	100	04/02/10	04/05/10	KWG1002875	
Aroclor 1260	ND	U	9.9	100	04/02/10	04/05/10	KWG1002875	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	84	35-133	04/05/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Misc. solid

Service Request: K1003107
Date Collected: 04/01/2010
Date Received: 04/02/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: ACS-2
Lab Code: K1003107-002
Extraction Method: EPA 3541
Analysis Method: 8082

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	9.9	100	04/02/10	04/05/10	KWG1002875	
Aroclor 1221	ND	U	20	100	04/02/10	04/05/10	KWG1002875	
Aroclor 1232	ND	U	9.9	100	04/02/10	04/05/10	KWG1002875	
Aroclor 1242	ND	U	9.9	100	04/02/10	04/05/10	KWG1002875	
Aroclor 1248	ND	U	9.9	100	04/02/10	04/05/10	KWG1002875	
Aroclor 1254	120	D	9.9	100	04/02/10	04/05/10	KWG1002875	
Aroclor 1260	ND	U	9.9	100	04/02/10	04/05/10	KWG1002875	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	103	35-133	04/05/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Misc. solid

Service Request: K1003107
Date Collected: NA
Date Received: NA

Polychlorinated Biphenyls (PCBs)

Sample Name: Method Blank
Lab Code: KWG1002875-4

Units: mg/Kg
Basis: Wet

Extraction Method: EPA 3541
Analysis Method: 8082

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.099	1	04/02/10	04/05/10	KWG1002875	
Aroclor 1221	ND	U	0.20	1	04/02/10	04/05/10	KWG1002875	
Aroclor 1232	ND	U	0.099	1	04/02/10	04/05/10	KWG1002875	
Aroclor 1242	ND	U	0.099	1	04/02/10	04/05/10	KWG1002875	
Aroclor 1248	ND	U	0.099	1	04/02/10	04/05/10	KWG1002875	
Aroclor 1254	ND	U	0.099	1	04/02/10	04/05/10	KWG1002875	
Aroclor 1260	ND	U	0.099	1	04/02/10	04/05/10	KWG1002875	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	77	35-133	04/05/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Misc. solid

Service Request: K1003107

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541
Analysis Method: 8082

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
ACS-1	K1003107-001	84 D #
ACS-2	K1003107-002	103 D #
Method Blank	KWG1002875-4	77
ACS-2MS	KWG1002875-1	90 D #
ACS-2DMS	KWG1002875-2	101 D #
Lab Control Sample	KWG1002875-3	81

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 35-133

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Air, Soil, & Water Environmental, Inc. (
 Project: University Medical Center
 Sample Matrix: Misc. solid

Service Request: K1003107
 Date Extracted: 04/02/2010
 Date Analyzed: 04/05/2010

Matrix Spike/Duplicate Matrix Spike Summary
 Polychlorinated Biphenyls (PCBs)

Sample Name: ACS-2
 Lab Code: K1003107-002
 Extraction Method: EPA 3541
 Analysis Method: 8082

Units: mg/Kg
 Basis: Wet
 Level: Low
 Extraction Lot: KWG1002875

Analyte Name	Sample Result	ACS-2MS KWG1002875-1 Matrix Spike			ACS-2DMS KWG1002875-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Aroclor 1016	ND	ND	0.985	0 *	ND	0.982	0 *	27-174		40
Aroclor 1260	ND	ND	0.985	0 *	ND	0.982	0 *	20-185		40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Misc. solid

Service Request: K1003107
Date Extracted: 04/02/2010
Date Analyzed: 04/05/2010

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541
Analysis Method: 8082

Units: mg/Kg
Basis: Wet
Level: Low
Extraction Lot: KWG1002875

Analyte Name	Lab Control Sample KWG1002875-3 Lab Control Spike			%Rec Limits
	Result	Expected	%Rec	
Aroclor 1016	0.848	1.00	85	48-121
Aroclor 1260	0.887	1.00	89	53-129

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

**Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form**

PC PD

Client / Project: Air Soil & Water Service Request K1003107

Received: 4/2/10 Opened: 4/2/10 By: _____

1. Samples were received via? *Mail Fed Ex* UPS *DHL PDX Courier Hand Delivered*
2. Samples were received in: (circle) *Cooler* Box *Envelope Other* NA
3. Were custody seals on coolers? *NA* *Y* N If yes, how many and where? _____
- If present, were custody seals intact? *Y* *N* If present, were they signed and dated? *Y* *N*

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID	Tracking Number	NA	Filed
<u>/</u>	<u>/</u>	<u>/</u>	<u>NA</u>	<u>12665F90012126 0068</u>		

7. Packing material used. *Inserts* Baggies *Bubble Wrap Gel Packs Wet Ice Sleeves Other* Paper
8. Were custody papers properly filled out (ink, signed, etc.)? *NA* Y *N*
9. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* *NA* Y *N*
10. Were all sample labels complete (i.e analysis, preservation, etc.)? *NA* Y *N*
11. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* *NA* Y *N*
12. Were appropriate bottles/containers and volumes received for the tests indicated? *NA* Y *N*
13. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA *Y* *N*
14. Were VOA vials received without headspace? *Indicate in the table below.* NA *Y* *N*
15. Was C12/Res negative? NA *Y* *N*

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head- space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

RUSH

Notes, Discrepancies, & Resolutions: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Misc. solid

Service Request: K1003387
Date Collected: 04/08/2010
Date Received: 04/09/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: ACS-3
Lab Code: K1003387-001
Extraction Method: EPA 3550
Analysis Method: 8082

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.022	1	04/12/10	04/12/10	KWG1003165	
Aroclor 1221	ND	U	0.044	1	04/12/10	04/12/10	KWG1003165	
Aroclor 1232	ND	U	0.022	1	04/12/10	04/12/10	KWG1003165	
Aroclor 1242	ND	U	0.022	1	04/12/10	04/12/10	KWG1003165	
Aroclor 1248	ND	U	0.022	1	04/12/10	04/12/10	KWG1003165	
Aroclor 1254	0.17		0.022	1	04/12/10	04/12/10	KWG1003165	
Aroclor 1260	ND	U	0.022	1	04/12/10	04/12/10	KWG1003165	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	89	35-133	04/12/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Misc. solid

Service Request: K1003387
Date Collected: NA
Date Received: NA

Polychlorinated Biphenyls (PCBs)

Sample Name: Method Blank
Lab Code: KWG1003165-3
Extraction Method: EPA 3550
Analysis Method: 8082

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.022	1	04/12/10	04/12/10	KWG1003165	
Aroclor 1221	ND	U	0.044	1	04/12/10	04/12/10	KWG1003165	
Aroclor 1232	ND	U	0.022	1	04/12/10	04/12/10	KWG1003165	
Aroclor 1242	ND	U	0.022	1	04/12/10	04/12/10	KWG1003165	
Aroclor 1248	ND	U	0.022	1	04/12/10	04/12/10	KWG1003165	
Aroclor 1254	ND	U	0.022	1	04/12/10	04/12/10	KWG1003165	
Aroclor 1260	ND	U	0.022	1	04/12/10	04/12/10	KWG1003165	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	83	35-133	04/12/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Misc. solid

Service Request: K1003387

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3550
Analysis Method: 8082

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
ACS-3	K1003387-001	89
Method Blank	KWG1003165-3	83
Lab Control Sample	KWG1003165-1	85
Duplicate Lab Control Sample	KWG1003165-2	84

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 35-133

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Misc. solid

Service Request: K1003387
Date Extracted: 04/12/2010
Date Analyzed: 04/12/2010

Lab Control Spike/Duplicate Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3550
Analysis Method: 8082

Units: mg/Kg
Basis: Wet
Level: Low
Extraction Lot: KWG1003165

Analyte Name	Lab Control Sample KWG1003165-1 Lab Control Spike			Duplicate Lab Control Sample KWG1003165-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Aroclor 1016	0.788	1.00	79	0.805	1.00	81	48-121	2	40
Aroclor 1260	0.860	1.00	86	0.861	1.00	86	53-129	0	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

April 15, 2010

Analytical Report for Service Request No: K1003542

Robert Daniels
Air, Soil, & Water Environmental, Inc. (ASW)
1615 Arizona Avenue
El Paso, TX 79902

RE: University Medical Center

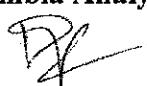
Dear Robert:

Enclosed are the results of the rush samples submitted to our laboratory on April 14, 2010. For your reference, these analyses have been assigned our service request number K1003542.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3281. You may also contact me via Email at PDivvela@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.
Pradeep Divvela
Project Chemist

PD/lb

Page 1 of 14

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value that was detected outside the quantitation range.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Air, Soil & Water Environmental, Inc.
Project: University Medical Center
Sample Matrix: Solid

Service Request No.: K1003542
Date Received: 04/14/10

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Duplicate (DUP), and Laboratory/Duplicate Laboratory Control Sample (LCS/DLCS).

Sample Receipt

Two solid samples were received for analysis at Columbia Analytical Services on 04/14/10. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored at room temperature upon receipt at the laboratory.

PCB Aroclors by EPA Method 8082

Calibration Verification Exceptions:

The primary evaluation criterion was exceeded for Aroclor 1016 and Aroclor 1260 in Continuing Calibration Verification (CCV) 0415F010. In accordance with CAS standard operating procedures, the alternative evaluation specified in the EPA method was performed using the average percent recovery of all analytes in the verification standard. The standard met the alternative evaluation criteria.

The analysis of PCB Aroclors by EPA 8082 requires the use of dual column confirmation. When the Continuing Calibration Verification (CCV) criterion is met for both columns, the higher of the two sample results is generally reported. The primary evaluation criteria were not met on the confirmation column for Aroclor 1016 and Aroclor 1260. The results for all target Aroclors were reported from the column with an acceptable CCV. The data quality was not affected. No further corrective action was necessary.

Sample Notes and Discussion:

The samples in this data set appeared to have been subjected to environmental stresses such as weathering, causing pattern degradation and changing the peak ratios. When pattern degradation occurs, correct identification and quantitative analysis of the individual Aroclors can be subjective. Care was taken to report the Aroclor with the best pattern match. Aroclor 1254 was reported for this data set.

No other anomalies associated with the analysis of these samples were observed.

Approved by  Date 04/15/10

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical C
Sample Matrix: Misc. solid

Service Request: K1003542

Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: Wet

Sample Name	Lab Code	Date Collected	Date Received	Date Analyzed	Result	Result Notes
ACS-4	K1003542-001	04/13/2010	04/14/2010	04/14/2010	97.8	
ACS-5	K1003542-002	04/13/2010	04/14/2010	04/14/2010	98.4	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical C
Sample Matrix: Misc. solid

Service Request: K1003542
Date Collected: 04/13/2010
Date Received: 04/14/2010
Date Analyzed: 04/14/2010

Duplicate Sample Summary
Total Solids

Prep Method: NONE
Analysis Method: 160.3M
Test Notes:

Units: PERCENT
Basis: Wet

Sample Name	Lab Code	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
ACS-5	K1003542-002	98.4	98.2	98.3	<1	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Misc. solid

Service Request: K1003542
Date Collected: 04/13/2010
Date Received: 04/14/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: ACS-4
Lab Code: K1003542-001
Extraction Method: EPA 3550
Analysis Method: 8082

Units: mg/Kg
Basis: Dry
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.054	1	04/15/10	04/15/10	KWG1003296	
Aroclor 1221	ND	U	0.11	1	04/15/10	04/15/10	KWG1003296	
Aroclor 1232	ND	U	0.054	1	04/15/10	04/15/10	KWG1003296	
Aroclor 1242	ND	U	0.054	1	04/15/10	04/15/10	KWG1003296	
Aroclor 1248	ND	U	0.054	1	04/15/10	04/15/10	KWG1003296	
Aroclor 1254	0.078		0.054	1	04/15/10	04/15/10	KWG1003296	
Aroclor 1260	ND	U	0.054	1	04/15/10	04/15/10	KWG1003296	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	75	35-133	04/15/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Misc. solid

Service Request: K1003542
Date Collected: 04/13/2010
Date Received: 04/14/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: ACS-5
Lab Code: K1003542-002
Extraction Method: EPA 3550
Analysis Method: 8082

Units: mg/Kg
Basis: Dry
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.052	1	04/15/10	04/15/10	KWG1003296	
Aroclor 1221	ND	U	0.11	1	04/15/10	04/15/10	KWG1003296	
Aroclor 1232	ND	U	0.052	1	04/15/10	04/15/10	KWG1003296	
Aroclor 1242	ND	U	0.052	1	04/15/10	04/15/10	KWG1003296	
Aroclor 1248	ND	U	0.052	1	04/15/10	04/15/10	KWG1003296	
Aroclor 1254	0.65		0.052	1	04/15/10	04/15/10	KWG1003296	
Aroclor 1260	ND	U	0.052	1	04/15/10	04/15/10	KWG1003296	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	75	35-133	04/15/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Air, Soil, & Water Environmental, Inc. (
 Project: University Medical Center
 Sample Matrix: Misc. solid

Service Request: K1003542
 Date Collected: NA
 Date Received: NA

Polychlorinated Biphenyls (PCBs)

Sample Name: Method Blank
 Lab Code: KWG1003296-3
 Extraction Method: EPA 3550
 Analysis Method: 8082

Units: mg/Kg
 Basis: Dry
 Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.051	1	04/15/10	04/15/10	KWG1003296	
Aroclor 1221	ND	U	0.11	1	04/15/10	04/15/10	KWG1003296	
Aroclor 1232	ND	U	0.051	1	04/15/10	04/15/10	KWG1003296	
Aroclor 1242	ND	U	0.051	1	04/15/10	04/15/10	KWG1003296	
Aroclor 1248	ND	U	0.051	1	04/15/10	04/15/10	KWG1003296	
Aroclor 1254	ND	U	0.051	1	04/15/10	04/15/10	KWG1003296	
Aroclor 1260	ND	U	0.051	1	04/15/10	04/15/10	KWG1003296	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	82	35-133	04/15/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Misc. solid

Service Request: K1003542

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3550
Analysis Method: 8082

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
ACS-4	K1003542-001	75
ACS-5	K1003542-002	75
Method Blank	KWG1003296-3	82
Lab Control Sample	KWG1003296-1	78
Duplicate Lab Control Sample	KWG1003296-2	82

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 35-133

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Misc. solid

Service Request: K1003542
Date Extracted: 04/15/2010
Date Analyzed: 04/15/2010

Lab Control Spike/Duplicate Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3550
Analysis Method: 8082

Units: mg/Kg
Basis: Dry
Level: Low
Extraction Lot: KWG1003296

Analyte Name	Lab Control Sample KWG1003296-1 Lab Control Spike			Duplicate Lab Control Sample KWG1003296-2 Duplicate Lab Control Spike			%Rec Limits	RPD	RPD Limit
	Result	Expected	%Rec	Result	Expected	%Rec			
Aroclor 1016	0.636	1.00	64	0.769	1.00	77	48-121	19	40
Aroclor 1260	0.716	1.00	72	0.801	1.00	80	53-129	11	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

CHAIN of CUSTODY										Page 1 of 1
Client: Air, Soil & Water Environmental Consultants, Inc. 1615 Arizona Avenue, El Paso, Texas 79902					Project: University Medical Center Telephone No. 915-528-0084 Fax No. 512-697-8300					Method of Shipment
Project Manager: Robert Daniels					Special Detection Limit/Reporting					UPS
Lab Sample No.					Matrix: <input type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Air <input type="checkbox"/> Other <input type="checkbox"/> Yes <input type="checkbox"/> No					24 HOUR TURN AROUND
No. of Containers					Sampling Date					
Sampling Time					8082 PCBs					
Turn Around Time (working days)										
Sample I.D.					M A R K S					
CS-4					CS-5					
CS-6										
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**Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form**

PC PD

Client / Project: Air, Soil & Water Environmental Consulting Service Request K10 03542

Received: 4/14/10 Opened: 4/14/10 By: JPW

1. Samples were received via? Mail Fed Ex UPS DHL PDX Courier Hand Delivered
2. Samples were received in: (circle) Cooler Box Envelope Other NA
3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
- If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID	Tracking Number	NA	Filed
			<u>NA</u>	<u>12665 F900121525719</u>		

7. Packing material used. Inserts Baggies Bubble Wrap Gel Packs Wet Ice Sleeves Other plastic bag
8. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
9. Did all bottles arrive in good condition (unbroken)? Indicate in the table below. NA Y N
10. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
11. Did all sample labels and tags agree with custody papers? Indicate major discrepancies in the table on page 2. NA Y N
12. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
13. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below NA Y N
14. Were VOA vials received without headspace? Indicate in the table below. NA Y N
15. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

RUSH

June 14, 2010

Analytical Report for Service Request No: K1005423

Robert Daniels
Air, Soil, & Water Environmental, Inc. (ASW)
rdaniels53@sbcglobal.net
1615 Arizona Avenue
El Paso, TX 79902

RE: University Medical Center


Dear Robert:

Enclosed are the results of the samples submitted to our laboratory on May 26, 2010. For your reference, these analyses have been assigned our service request number K1005423.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3281. You may also contact me via Email at PDivvela@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.
Pradeep Divvela
Project Chemist

PD/ln

Page 1 of 12

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value that was detected outside the quantitation range.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Program	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Colorado DPHE	-
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DHS	WA200001
South Carolina DHEC	61002
Utah DOH	COLU
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Solid

Service Request: K1005423
Date Collected: 05/19/2010
Date Received: 05/26/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: ACS-6
Lab Code: K1005423-001
Extraction Method: EPA 3541
Analysis Method: 8082

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.097	1	06/02/10	06/09/10	KWG1005543	
Aroclor 1221	ND	U	0.20	1	06/02/10	06/09/10	KWG1005543	
Aroclor 1232	ND	U	0.097	1	06/02/10	06/09/10	KWG1005543	
Aroclor 1242	ND	U	0.097	1	06/02/10	06/09/10	KWG1005543	
Aroclor 1248	ND	U	0.097	1	06/02/10	06/09/10	KWG1005543	
Aroclor 1254	ND	U	0.097	1	06/02/10	06/09/10	KWG1005543	
Aroclor 1260	ND	U	0.097	1	06/02/10	06/09/10	KWG1005543	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	116	35-133	06/09/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Solid

Service Request: K1005423
Date Collected: 05/19/2010
Date Received: 05/26/2010

Polychlorinated Biphenyls (PCBs)

Sample Name: ACS-7
Lab Code: K1005423-002
Extraction Method: EPA 3541
Analysis Method: 8082

Units: mg/Kg
Basis: Wet
Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.098	1	06/02/10	06/09/10	KWG1005543	
Aroclor 1221	ND	U	0.20	1	06/02/10	06/09/10	KWG1005543	
Aroclor 1232	ND	U	0.098	1	06/02/10	06/09/10	KWG1005543	
Aroclor 1242	ND	U	0.098	1	06/02/10	06/09/10	KWG1005543	
Aroclor 1248	ND	U	0.098	1	06/02/10	06/09/10	KWG1005543	
Aroclor 1254	ND	U	0.098	1	06/02/10	06/09/10	KWG1005543	
Aroclor 1260	ND	U	0.098	1	06/02/10	06/09/10	KWG1005543	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	111	35-133	06/09/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Results

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Sediment

Service Request: K1005423
Date Collected: NA
Date Received: NA

Polychlorinated Biphenyls (PCBs)

Sample Name: Method Blank
Lab Code: KWG1005543-4

Units: mg/Kg
Basis: Wet

Extraction Method: EPA 3541
Analysis Method: 8082

Level: Low

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND	U	0.050	1	06/02/10	06/08/10	KWG1005543	
Aroclor 1221	ND	U	0.10	1	06/02/10	06/08/10	KWG1005543	
Aroclor 1232	ND	U	0.050	1	06/02/10	06/08/10	KWG1005543	
Aroclor 1242	ND	U	0.050	1	06/02/10	06/08/10	KWG1005543	
Aroclor 1248	ND	U	0.050	1	06/02/10	06/08/10	KWG1005543	
Aroclor 1254	ND	U	0.050	1	06/02/10	06/08/10	KWG1005543	
Aroclor 1260	ND	U	0.050	1	06/02/10	06/08/10	KWG1005543	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	111	35-133	06/08/10	Acceptable

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Solid

Service Request: K1005423

Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541
Analysis Method: 8082

Units: PERCENT
Level: Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Sur1</u>
ACS-6	K1005423-001	116
ACS-7	K1005423-002	111
Method Blank	KWG1005543-4	111
Batch QC	K1005351-010	99
Batch QCMS	KWG1005543-1	110
Batch QCDMS	KWG1005543-2	95
Lab Control Sample	KWG1005543-3	108

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 35-133

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Sediment

Service Request: K1005423
Date Extracted: 06/02/2010
Date Analyzed: 06/08/2010

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name: Batch QC
Lab Code: K1005351-010
Extraction Method: EPA 3541
Analysis Method: 8082

Units: mg/Kg
Basis: Wet
Level: Low
Extraction Lot: KWG1005543

Analyte Name	Sample Result	Batch QCMS KWG1005543-1 Matrix Spike			Batch QCMS KWG1005543-2 Duplicate Matrix Spike			%Rec Limits	RPD	RPD Limit
		Result	Expected	%Rec	Result	Expected	%Rec			
Aroclor 1016	ND	0.851	0.768	111	0.739	0.757	98	27-174	14	40
Aroclor 1260	ND	0.857	0.768	112	0.741	0.757	98	20-185	15	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Air, Soil, & Water Environmental, Inc. (
Project: University Medical Center
Sample Matrix: Sediment

Service Request: K1005423
Date Extracted: 06/02/2010
Date Analyzed: 06/08/2010

Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3541
Analysis Method: 8082

Units: mg/Kg
Basis: Wet
Level: Low
Extraction Lot: KWG1005543

Lab Control Sample
KWG1005543-3
Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Aroclor 1016	1.13	1.00	113	48-121
Aroclor 1260	1.12	1.00	112	53-129

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC PD

Client / Project: Air, Soil, & Water Service Request K10 5423
Received: 5/26/10 Opened: 5/26/10 By: AP

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* NA
3. Were custody seals on coolers? *NA* *Y* *N* If yes, how many and where? _____
If present, were custody seals intact? *Y* *N* If present, were they signed and dated? *Y* *N*

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID	NA	Tracking Number	NA	Filed
<u>/</u>	<u>/</u>	<u>/</u>			<u>17665 F9DC389099976</u>		

7. Packing material used. *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Sleeves* *Other* _____
8. Were custody papers properly filled out (ink, signed, etc.)? *NA* *Y* *N*
9. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* *NA* *Y* *N*
10. Were all sample labels complete (i.e analysis, preservation, etc.)? *NA* *Y* *N*
11. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* *NA* *Y* *N*
12. Were appropriate bottles/containers and volumes received for the tests indicated? *NA* *Y* *N*
13. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* *NA* *Y* *N*
14. Were VOA vials received without headspace? *Indicate in the table below.* *NA* *Y* *N*
15. Was C12/Res negative? *NA* *Y* *N*

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head- space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

LABORATORY REPORT

February 16, 2010

Robert Daniels
Air, Soil, & Water Environmental, Inc. (ASW)
1615 Arizona Ave
El Paso, TX 79902

RE: University Medical Center of El Paso / 009-UMC-012

Dear Robert:

Enclosed are the results of the samples submitted to our laboratory on February 2, 2010. For your reference, these analyses have been assigned our service request number P1000374.

All analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein. Your report contains 11 pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; Department of the Navy (NFESC); Pennsylvania Registration No. 68-03307; TX Commission of Environmental Quality, NELAP ID T104704413-09-TX; Minnesota Department of Health, Certificate No. 11495AA. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

Columbia Analytical Services, Inc.



Karen Ryan
Project Manager

Client: Air, Soil, & Water Environmental, Inc. (ASW) CAS Project No: P1000374
Project: University Medical Center of El Paso / 009-UMC-012

CASE NARRATIVE

The samples were received intact under chain of custody on February 2, 2010 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Aroclors Analysis

The low volume PUF samples were analyzed for aroclors. The samples were extracted and analyzed for aroclors in accordance with EPA Method TO-10A. An aliquot of the extract was injected into a gas chromatograph with dual electron capture detectors (GC/ECD).

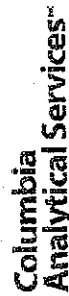
The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Project: University Medical Center of El Paso/009-UMC-012

Service Request: P1000374

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
P1000374-001	UMC-1	1/30/10	14:11
P1000374-002	UMC-2	1/31/10	14:46
P1000374-003	UMC-3	2/1/10	15:11



Fax (805) 526-7270

Air - Chain of Custody Record & Analytical Service Request

Page 7 of 7[illegible]

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: Air, Soil, & Water Environmental, Inc. (ASW)

Work order: P1000374

Project: University Medical Center of El Paso / 009-UMC-012

Sample(s) received on: 02/02/10

Date opened: 02/02/10

by: MZAMORA

Note: This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		<u>Yes</u>	<u>No</u>	<u>N/A</u>
1	Were sample containers properly marked with client sample ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Container(s) supplied by CAS ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Did sample containers arrive in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Was a chain-of-custody provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Was the chain-of-custody properly completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Did sample container labels and/or tags agree with custody papers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Was sample volume received adequate for analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	Are samples within specified holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	Was proper temperature (thermal preservation) of cooler at receipt adhered to?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Cooler Temperature <u>5</u> °C Blank Temperature _____ °C			
10	Was a trip blank received?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Trip blank supplied by CAS: _____			
11	Were custody seals on outside of cooler/Box?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Location of seal(s)? _____ Sealing Lid?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Were signature and date included?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Were seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Were custody seals on outside of sample container?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Location of seal(s)? _____ Sealing Lid?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Were signature and date included?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Were seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12	Do containers have appropriate preservation , according to method/SOP or Client specified information?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Is there a client indication that the submitted samples are pH preserved?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Were VOA vials checked for presence/absence of air bubbles?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13	Tubes: Are the tubes capped and intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Do they contain moisture?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14	Badges: Are the badges properly capped and intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Are dual bed badges separated and individually capped and intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1000374-001.01	PUF (Low Vol)					
P1000374-002.01	PUF (Low Vol)					
P1000374-003.01	PUF (Low Vol)					

Explain any discrepancies: (include lab sample ID numbers): _____

*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKNT/PHOS, H2SO4 (pH<2); Metals, HNO3 (pH<2); CN (NaOH or NaOH/Ace Acid) (pH>12);

Diss. Sulfide, NaOH (pH>12); T. Sulfide, NaOH/ZnAc (pH>12) RSK - MBPPP HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

P1000374_Air, Soil, & Water Environmental, Inc. (ASW)_University Medical Center of El Paso_009-UMC-012 - Page 1 of 1

02/02/10 12:00 PM

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Sample ID: UMC-1
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1000374
CAS Sample ID: P1000374-001

Test Code: EPA TO-10A Modified
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge
Test Notes:

Date Collected: 1/30/10
Date Received: 2/2/10
Date Extracted: 2/4/10
Date Analyzed: 2/5/10
Volume Sampled: 2.8445 m³
Final Extract Volume: 10 ml

CAS #	Compound	Result ng/Cartridge	MRL ng/Cartridge	Result µg/m ³	MRL µg/m ³	Data Qualifier
12674-11-2	Aroclor 1016	ND	500	ND	0.18	
11104-28-2	Aroclor 1221	ND	500	ND	0.18	
11141-16-5	Aroclor 1232	ND	500	ND	0.18	
53469-21-9	Aroclor 1242	ND	500	ND	0.18	
12672-29-6	Aroclor 1248	ND	500	ND	0.18	
11097-69-1	Aroclor 1254	ND	500	ND	0.18	
11096-82-5	Aroclor 1260	ND	500	ND	0.18	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Sample ID: UMC-2
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1000374
CAS Sample ID: P1000374-002

Test Code: EPA TO-10A Modified
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge
Test Notes:

Date Collected: 1/31/10
Date Received: 2/2/10
Date Extracted: 2/4/10
Date Analyzed: 2/5/10
Volume Sampled: 2.8383 m³
Final Extract Volume: 10 ml

CAS #	Compound	Result ng/Cartridge	MRL ng/Cartridge	Result µg/m ³	MRL µg/m ³	Data Qualifier
12674-11-2	Aroclor 1016	ND	500	ND	0.18	
11104-28-2	Aroclor 1221	ND	500	ND	0.18	
11141-16-5	Aroclor 1232	ND	500	ND	0.18	
53469-21-9	Aroclor 1242	ND	500	ND	0.18	
12672-29-6	Aroclor 1248	ND	500	ND	0.18	
11097-69-1	Aroclor 1254	ND	500	ND	0.18	
11096-82-5	Aroclor 1260	ND	500	ND	0.18	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
 Client Sample ID: UMC-3
 Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1000374
 CAS Sample ID: P1000374-003

Test Code: EPA TO-10A Modified
 Instrument ID: HP6890/GC6/ECD/ECD
 Analyst: Hani Cherazaie
 Sampling Media: PUF (Low Volume) Cartridge
 Test Notes:

Date Collected: 2/1/10
 Date Received: 2/2/10
 Date Extracted: 2/4/10
 Date Analyzed: 2/5/10
 Volume Sampled: 2.6619 m³
 Final Extract Volume: 10 ml

CAS #	Compound	Result ng/Cartridge	MRL ng/Cartridge	Result µg/m ³	MRL µg/m ³	Data Qualifier
12674-11-2	Aroclor 1016	ND	500	ND	0.19	
11104-28-2	Aroclor 1221	ND	500	ND	0.19	
11141-16-5	Aroclor 1232	ND	500	ND	0.19	
53469-21-9	Aroclor 1242	ND	500	ND	0.19	
12672-29-6	Aroclor 1248	ND	500	ND	0.19	
11097-69-1	Aroclor 1254	880	500	0.33	0.19	
11096-82-5	Aroclor 1260	ND	500	ND	0.19	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Sample ID: Method Blank
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1000374
CAS Sample ID: P100204-MB

Test Code: EPA TO-10A Modified
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge
Test Notes:

Date Collected: NA
Date Received: NA
Date Extracted: 2/4/10
Date Analyzed: 2/05/10
Volume Sampled: NA m³
Final Extract Volume: 10 ml

CAS #	Compound	Result ng/Cartridge	MRL ng/Cartridge	Result µg/m ³	MRL µg/m ³	Data Qualifier
12674-11-2	Aroclor 1016	ND	500	NA	NA	
11104-28-2	Aroclor 1221	ND	500	NA	NA	
11141-16-5	Aroclor 1232	ND	500	NA	NA	
53469-21-9	Aroclor 1242	ND	500	NA	NA	
12672-29-6	Aroclor 1248	ND	500	NA	NA	
11097-69-1	Aroclor 1254	ND	500	NA	NA	
11096-82-5	Aroclor 1260	ND	500	NA	NA	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

NA = Not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1000374

Test Code: EPA TO-10A Modified
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge(s)
Test Notes:

Date(s) Collected: 1/30 - 2/1/10
Date(s) Received: 2/2/10
Date(s) Extracted: 2/04/10
Date(s) Analyzed: 2/5/10

Client Sample ID	CAS Sample ID	2,4,5,6-Tetrachloro-m-Xylene		Decachlorobiphenyl		Data Qualifier
		% Recovered	Acceptance Limits	% Recovered	Acceptance Limits	
Method Blank	P100204-MB	91	60-120	116	60-120	
Lab Control Sample	P100204-LCS	93	60-120	118	60-120	
Duplicate Lab Control Sample	P100204-DLCS	95	60-120	119	60-120	
UMC-1	P1000374-001	79	60-120	105	60-120	
UMC-2	P1000374-002	91	60-120	107	60-120	
UMC-3	P1000374-003	94	60-120	112	60-120	

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1000374
CAS Sample ID: P100204-DLCS

Test Code: EPA TO-10A Modified
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge
Test Notes:

Date Collected: NA
Date Received: NA
Date Extracted: 2/4/10
Date Analyzed: 2/05/10
Volume(s) Analyzed: NA m³

CAS #	Compound	Spike Amount		Result		% Recovery		Project Acceptance		RPD	RPD	Data
		LCS / DLCS		LCS	DLCS	LCS	DLCS	Limits			Limit	Qualifier
		µg/ml		µg/ml	µg/ml							
11097-69-1	Aroclor 1254	500		527	568	105	114	70-130		8	15	

LABORATORY REPORT

April 23, 2010

Robert Daniels
Air, Soil, & Water Environmental, Inc. (ASW)
1615 Arizona Avenue
El Paso, TX 79902

RE: University Medical Center of El Paso / 009-UMC-012

Dear Robert:

Enclosed are the results of the samples submitted to our laboratory on April 9, 2010. For your reference, these analyses have been assigned our service request number P1001261.

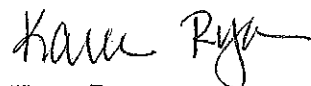
All analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein. Your report contains 16 pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; United States Department of Defense Environmental Laboratory Accreditation Program (DoD-ELAP), Certificate No. L10-3; Pennsylvania Registration No. 68-03307; TX Commission of Environmental Quality, NELAP ID T104704413-09-TX; Minnesota Department of Health, Certificate No. 11495AA. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

Columbia Analytical Services, Inc.



Karen Ryan
Project Manager

Page
1 of 16

Client: Air, Soil, & Water Environmental, Inc. (ASW) CAS Project No: P1001261
Project: University Medical Center of El Paso / 009-UMC-012

CASE NARRATIVE

The samples were received intact under chain of custody on April 9, 2010 and were stored in accordance with the analytical method requirements. Sample OUT-CON-3-30-2L-29 (P1001261-008) was placed on hold per client instructions. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Arochlors Analysis

Samples ABT-1-PRE (P1001261-001), IN-CON-3-30 (P1001261-002), OUT-CON-3-30 (P1001261-003), OUT-CON-3-31 (P1001261-004) and IN-CON-3-31 (P1001261-005) were received past the recommended holding time. The analysis was performed as soon as possible after receipt by the laboratory. The data is flagged to indicate the holding time exceedances.

The samples were extracted and analyzed for selected arochlors in accordance with EPA Method TO-10A. An aliquot of each extract was injected into a gas chromatograph with dual electron capture detectors (GC/ECD).

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Project: University Medical Center of El Paso/009-UMC-012

Service Request: P1001261

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
P1001261-001	ABT-1-PRE	3/28/10	11:52
P1001261-002	IN-CON-3-30	3/31/10	07:43
P1001261-003	OUT-CON-3-30	3/31/10	08:10
P1001261-004	OUT-CON-3-31	4/1/10	08:57
P1001261-005	IN-CON-3-31	4/1/10	08:31
P1001261-006	OUT-CON-4-6	4/7/10	10:01
P1001261-007	IN-CON-4-6	4/7/10	09:45
P1001261-008	OUT-CON-3-30-2L-29	3/30/10	00:00



2655 Park Center Drive, Suite A
Siml Valley, California 93065
Phone (805) 526-7161
Fax (805) 526-7270

Air - Chain of Custody Record & Analytical Service Request

Page _____ of _____

[illegible]

4

Columbia Analytical Services, Inc.

Sample Acceptance Check Form

Client: Air, Soil, & Water Environmental, Inc. (ASW)

Work order: P1001261

Project: University Medical Center of El Paso / 009-UMC-012

Sample(s) received on: 04/09/10

Date opened: 04/09/10

by: MZAMORA

Note: This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

	Yes	No	N/A
1 Were sample containers properly marked with client sample ID?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2 Container(s) supplied by CAS ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3 Did sample containers arrive in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4 Was a chain-of-custody provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5 Was the chain-of-custody properly completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6 Did sample container labels and/or tags agree with custody papers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7 Was sample volume received adequate for analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8 Are samples within specified holding times?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9 Was proper temperature (thermal preservation) of cooler at receipt adhered to?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cooler Temperature <u>12</u> °C Blank Temperature _____ °C			
10 Was a trip blank received?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Trip blank supplied by CAS: _____			
11 Were custody seals on outside of cooler/Box?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Location of seal(s)? _____ Sealing Lid?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Were signature and date included?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Were seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Were custody seals on outside of sample container?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Location of seal(s)? _____ Sealing Lid?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Were signature and date included?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Were seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12 Do containers have appropriate preservation , according to method/SOP or Client specified information?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is there a client indication that the submitted samples are pH preserved?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Were VOA vials checked for presence/absence of air bubbles?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Does the client/method/SOP require that the analyst check the sample pH and if <u>necessary</u> alter it?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13 Tubes: Are the tubes capped and intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Do they contain moisture?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14 Badges: Are the badges properly capped and intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are dual bed badges separated and individually capped and intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1001261-001.01	PUF (Low Vol)					
P1001261-002.01	PUF (Low Vol)					
P1001261-003.01	PUF (Low Vol)					
P1001261-004.01	PUF (Low Vol)					
P1001261-005.01	PUF (Low Vol)					

Explain any discrepancies: (include lab sample ID numbers): _____

Samples -006 & -007 have the same sample ID on the jar. They were assigned by the sample time listed on jar.

*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKN/T.PHOS, H2SO4 (pH<2); Metals, HNO3 (pH<2); CN (NaOH or NaOH/Asc Acid) (pH>12);

Diss. Sulfide, NaOH (pH>12); T. Sulfide, NaOH/ZnAc (pH>12)

RSK - MEEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

Client: Air, Soil, & Water Environmental, Inc. (ASW)

Project: University Medical Center of El Paso / 009-UMC-012

Date opened: 04/09/10

by: MZAMORA

Explain any discrepancies: (include lab sample ID numbers):

RSK - MEEPP, HCL ($\text{pH} < 2$); RSK - CO_2 , ($\text{pH} 5-8$); Sulfur ($\text{pH} > 4$)

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Sample ID: ABT-1-PRE
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1001261
CAS Sample ID: P1001261-001

Test Code: EPA TO-10A
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge
Test Notes: H3

Date Collected: 3/28/10
Date Received: 4/9/10
Date Extracted: 4/12/10
Date Analyzed: 4/13/10
Volume Sampled: 2.955 m³
Final Extract Volume: 10 ml

CAS #	Compound	Result ng/Cartridge	MRL ng/Cartridge	Result µg/m ³	MRL µg/m ³	Data Qualifier
12674-11-2	Aroclor 1016	ND	500	ND	0.17	
11104-28-2	Aroclor 1221	ND	500	ND	0.17	
11141-16-5	Aroclor 1232	ND	500	ND	0.17	
53469-21-9	Aroclor 1242	ND	500	ND	0.17	
12672-29-6	Aroclor 1248	ND	500	ND	0.17	
11097-69-1	Aroclor 1254	ND	500	ND	0.17	
11096-82-5	Aroclor 1260	ND	500	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H3 = Sample was received and analyzed past holding time.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Sample ID: IN-CON-3-30
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1001261
CAS Sample ID: P1001261-002

Test Code: EPA TO-10A
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge
Test Notes: H3

Date Collected: 3/31/10
Date Received: 4/9/10
Date Extracted: 4/12/10
Date Analyzed: 4/13/10
Volume Sampled: 3.2737 m³
Final Extract Volume: 10 ml

CAS #	Compound	Result ng/Cartridge	MRL ng/Cartridge	Result µg/m ³	MRL µg/m ³	Data Qualifier
12674-11-2	Aroclor 1016	ND	500	ND	0.15	
11104-28-2	Aroclor 1221	ND	500	ND	0.15	
11141-16-5	Aroclor 1232	ND	500	ND	0.15	
53469-21-9	Aroclor 1242	ND	500	ND	0.15	
12672-29-6	Aroclor 1248	ND	500	ND	0.15	
11097-69-1	Aroclor 1254	55,000	500	17	0.15	
11096-82-5	Aroclor 1260	ND	500	ND	0.15	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H3 = Sample was received and analyzed past holding time.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Sample ID: OUT-CON-3-30
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1001261
CAS Sample ID: P1001261-003

Test Code: EPA TO-10A
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge
Test Notes: H3

Date Collected: 3/31/10
Date Received: 4/9/10
Date Extracted: 4/12/10
Date Analyzed: 4/13/10
Volume Sampled: 3.2615 m³
Final Extract Volume: 10 ml

CAS #	Compound	Result ng/Cartridge	MRL ng/Cartridge	Result µg/m ³	MRL µg/m ³	Data Qualifier
12674-11-2	Aroclor 1016	ND	500	ND	0.15	
11104-28-2	Aroclor 1221	ND	500	ND	0.15	
11141-16-5	Aroclor 1232	ND	500	ND	0.15	
53469-21-9	Aroclor 1242	ND	500	ND	0.15	
12672-29-6	Aroclor 1248	ND	500	ND	0.15	
11097-69-1	Aroclor 1254	ND	500	ND	0.15	
11096-82-5	Aroclor 1260	ND	500	ND	0.15	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H3 = Sample was received and analyzed past holding time.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Sample ID: OUT-CON-3-31
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1001261
CAS Sample ID: P1001261-004

Test Code: EPA TO-10A
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge
Test Notes: H3

Date Collected: 4/1/10
Date Received: 4/9/10
Date Extracted: 4/12/10
Date Analyzed: 4/13/10
Volume Sampled: 3.273 m³
Final Extract Volume: 10 ml

CAS #	Compound	Result ng/Cartridge	MRL ng/Cartridge	Result µg/m ³	MRL µg/m ³	Data Qualifier
12674-11-2	Aroclor 1016	ND	500	ND	0.15	
11104-28-2	Aroclor 1221	ND	500	ND	0.15	
11141-16-5	Aroclor 1232	ND	500	ND	0.15	
53469-21-9	Aroclor 1242	ND	500	ND	0.15	
12672-29-6	Aroclor 1248	ND	500	ND	0.15	
11097-69-1	Aroclor 1254	ND	500	ND	0.15	
11096-82-5	Aroclor 1260	ND	500	ND	0.15	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H3 = Sample was received and analyzed past holding time.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
 Client Sample ID: IN-CON-3-31
 Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1001261
 CAS Sample ID: P1001261-005

Test Code: EPA TO-10A
 Instrument ID: HP6890/GC6/ECD/ECD
 Analyst: Hani Cherazaie
 Sampling Media: PUF (Low Volume) Cartridge
 Test Notes: H3

Date Collected: 4/1/10
 Date Received: 4/9/10
 Date Extracted: 4/12/10
 Date Analyzed: 4/13/10
 Volume Sampled: 3.2049 m³
 Final Extract Volume: 10 ml

CAS #	Compound	Result ng/Cartridge	MRL ng/Cartridge	Result µg/m ³	MRL µg/m ³	Data Qualifier
12674-11-2	Aroclor 1016	ND	500	ND	0.16	
11104-28-2	Aroclor 1221	ND	500	ND	0.16	
11141-16-5	Aroclor 1232	ND	500	ND	0.16	
53469-21-9	Aroclor 1242	ND	500	ND	0.16	
12672-29-6	Aroclor 1248	ND	500	ND	0.16	
11097-69-1	Aroclor 1254	5,700	500	1.8	0.16	
11096-82-5	Aroclor 1260	ND	500	ND	0.16	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

H3 = Sample was received and analyzed past holding time.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Sample ID: OUT-CON-4-6
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1001261
CAS Sample ID: P1001261-006

Test Code: EPA TO-10A
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge
Test Notes:

Date Collected: 4/7/10
Date Received: 4/9/10
Date Extracted: 4/12/10
Date Analyzed: 4/13/10
Volume Sampled: 3.1921 m³
Final Extract Volume: 10 ml

CAS #	Compound	Result ng/Cartridge	MRL ng/Cartridge	Result µg/m ³	MRL µg/m ³	Data Qualifier
12674-11-2	Aroclor 1016	ND	500	ND	0.16	
11104-28-2	Aroclor 1221	ND	500	ND	0.16	
11141-16-5	Aroclor 1232	ND	500	ND	0.16	
53469-21-9	Aroclor 1242	ND	500	ND	0.16	
12672-29-6	Aroclor 1248	ND	500	ND	0.16	
11097-69-1	Aroclor 1254	ND	500	ND	0.16	
11096-82-5	Aroclor 1260	ND	500	ND	0.16	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit. The minimum quantity of a target analyte that can be confidently determined by the referenced method.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Sample ID: IN-CON-4-6
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1001261
CAS Sample ID: P1001261-007

Test Code: EPA TO-10A
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge
Test Notes:

Date Collected: 4/7/10
Date Received: 4/9/10
Date Extracted: 4/12/10
Date Analyzed: 4/13/10
Volume Sampled: 3.2232 m³
Final Extract Volume: 10 ml

CAS #	Compound	Result ng/Cartridge	MRL ng/Cartridge	Result µg/m ³	MRL µg/m ³	Data Qualifier
12674-11-2	Aroclor 1016	ND	500	ND	0.16	
11104-28-2	Aroclor 1221	ND	500	ND	0.16	
11141-16-5	Aroclor 1232	ND	500	ND	0.16	
53469-21-9	Aroclor 1242	ND	500	ND	0.16	
12672-29-6	Aroclor 1248	ND	500	ND	0.16	
11097-69-1	Aroclor 1254	9,300	500	2.9	0.16	
11096-82-5	Aroclor 1260	ND	500	ND	0.16	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Sample ID: Method Blank
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1001261
CAS Sample ID: P100412-MB

Test Code: EPA TO-10A
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge
Test Notes:

Date Collected: NA
Date Received: NA
Date Extracted: 4/12/10
Date Analyzed: 4/13/10
Volume Sampled: NA m³
Final Extract Volume: 10 ml

CAS #	Compound	Result ng/Cartridge	MRL ng/Cartridge	Result µg/m ³	MRL µg/m ³	Data Qualifier
12674-11-2	Aroclor 1016	ND	500	NA	NA	
11104-28-2	Aroclor 1221	ND	500	NA	NA	
11141-16-5	Aroclor 1232	ND	500	NA	NA	
53469-21-9	Aroclor 1242	ND	500	NA	NA	
12672-29-6	Aroclor 1248	ND	500	NA	NA	
11097-69-1	Aroclor 1254	ND	500	NA	NA	
11096-82-5	Aroclor 1260	ND	500	NA	NA	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

NA = Not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1001261

Test Code: EPA TO-10A
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge(s)
Test Notes:

Date(s) Collected: 3/28 - 4/7/10
Date(s) Received: 4/9/10
Date(s) Extracted: 4/12/10
Date(s) Analyzed: 4/13/10

Client Sample ID	CAS Sample ID	2,4,5,6-Tetrachloro-m-Xylene		Decachlorobiphenyl		Data Qualifier
		% Recovered	Acceptance Limits	% Recovered	Acceptance Limits	
Method Blank	P100412-MB	83	60-120	110	60-120	
Lab Control Sample	P100412-LCS	85	60-120	108	60-120	
Duplicate Lab Control Sample	P100412-DLCS	84	60-120	109	60-120	
ABT-1-PRE	P1001261-001	86	60-120	109	60-120	
IN-CON-3-30	P1001261-002	90	60-120	114	60-120	
OUT-CON-3-30	P1001261-003	87	60-120	108	60-120	
OUT-CON-3-31	P1001261-004	83	60-120	111	60-120	
IN-CON-3-31	P1001261-005	85	60-120	111	60-120	
OUT-CON-4-6	P1001261-006	84	60-120	112	60-120	
IN-CON-4-6	P1001261-007	86	60-120	108	60-120	

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1001261
CAS Sample ID: P100412-DLCS

Test Code: EPA TO-10A
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge
Test Notes:

Date Collected: NA
Date Received: NA
Date Extracted: 4/12/10
Date Analyzed: 4/13/10
Volume(s) Analyzed: NA m³

CAS #	Compound	Spike Amount		Result		% Recovery		Project	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS		LCS	DLCS	Acceptance			
		µg/ml	µg/ml	µg/ml				Limits		Limit	Qualifier
11097-69-1	Aroclor 1254	500	481	471		96	94	70-130	2	15	

LABORATORY REPORT

April 30, 2010

Robert Daniels
Air, Soil, & Water Environmental, Inc. (ASW)
1615 Arizona Avenue
El Paso, TX 79902

RE: University Medical Center of El Paso / 009-UMC-012

Dear Robert:

Enclosed are the results of the samples submitted to our laboratory on April 16, 2010. For your reference, these analyses have been assigned our service request number P1001356.

All analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein. Your report contains 15 pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; United States Department of Defense Environmental Laboratory Accreditation Program (DoD-ELAP), Certificate No. L10-3; Pennsylvania Registration No. 68-03307; TX Commission of Environmental Quality, NELAP ID T104704413-09-TX; Minnesota Department of Health, Certificate No. 11495AA. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

Columbia Analytical Services, Inc.



Karen Ryan
Project Manager

Page
1 of 15

Client: Air, Soil, & Water Environmental, Inc. (ASW) CAS Project No: P1001356
Project: University Medical Center of El Paso / 009-UMC-012

CASE NARRATIVE

The samples were received intact under chain of custody on April 16, 2010 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Arochlors Analysis

The samples were extracted and analyzed for selected arochlors in accordance with EPA Method TO-10A. An aliquot of each extract was injected into a gas chromatograph with dual electron capture detectors (GC/ECD).

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Project: University Medical Center of El Paso/009-UMC-012

Service Request: P1001356

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
P1001356-001	IN-CON-4-7	4/9/10	09:31
P1001356-002	OUT-CON-4-7	4/9/10	10:05
P1001356-003	IN-CON-4-9	4/10/10	10:07
P1001356-004	OUT-CON-4-9	4/10/10	10:31
P1001356-005	OUT-CON-4-11	4/12/10	10:45
P1001356-006	OUT-CON-4-12	4/13/10	10:51
P1001356-007	OUT-CON-4-14	4/14/10	11:31

Columbia Analytical Services, Inc.

Sample Acceptance Check Form

Client: Air, Soil, & Water Environmental, Inc. (ASW)

Work order: P1001356

Project: University Medical Center of El Paso / 009-UMC-012

Sample(s) received on: 04/16/10

Date opened: 04/16/10

by: MZAMORA

Note: This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		Yes	No	N/A
1	Were sample containers properly marked with client sample ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Container(s) supplied by CAS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Did sample containers arrive in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Was a chain-of-custody provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Was the chain-of-custody properly completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Did sample container labels and/or tags agree with custody papers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Was sample volume received adequate for analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	Are samples within specified holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	Was proper temperature (thermal preservation) of cooler at receipt adhered to?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Cooler Temperature <u>3</u> °C Blank Temperature _____ °C			
10	Was a trip blank received?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Trip blank supplied by CAS: _____			
11	Were custody seals on outside of cooler/Box?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Location of seal(s)? _____ Sealing Lid?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Were signature and date included?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Were seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Were custody seals on outside of sample container?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Location of seal(s)? _____ Sealing Lid?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Were signature and date included?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Were seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12	Do containers have appropriate preservation , according to method/SOP or Client specified information?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Is there a client indication that the submitted samples are pH preserved?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Were VOA vials checked for presence/absence of air bubbles?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13	Tubes: Are the tubes capped and intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Do they contain moisture?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14	Badges: Are the badges properly capped and intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Are dual bed badges separated and individually capped and intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1001356-001.01	PUF (Low Vol)					
P1001356-002.01	PUF (Low Vol)					
P1001356-003.01	PUF (Low Vol)					
P1001356-004.01	PUF (Low Vol)					
P1001356-005.01	PUF (Low Vol)					

Explain any discrepancies: (include lab sample ID numbers):

*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKN/T.PHOS, H2SO4 (pH<2); Metals, HNO3 (pH<2); CN (NaOH or NaOH/Asc Acid) (pH>12);

Diss. Sulfide, NaOH (pH>12); T. Sulfide, NaOH/ZnAc (pH>12)

RSK - MBEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

5

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Sample ID: OUT-CON-4-7
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1001356
CAS Sample ID: P1001356-002

Test Code: EPA TO-10A
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge
Test Notes:

Date Collected: 4/9/10
Date Received: 4/16/10
Date Extracted: 4/19/10
Date Analyzed: 4/26/10
Volume Sampled: 2.9712 m³
Final Extract Volume: 10 ml

CAS #	Compound	Result ng/Cartridge	MRL ng/Cartridge	Result µg/m ³	MRL µg/m ³	Data Qualifier
12674-11-2	Aroclor 1016	ND	500	ND	0.17	
11104-28-2	Aroclor 1221	ND	500	ND	0.17	
11141-16-5	Aroclor 1232	ND	500	ND	0.17	
53469-21-9	Aroclor 1242	ND	500	ND	0.17	
12672-29-6	Aroclor 1248	ND	500	ND	0.17	
11097-69-1	Aroclor 1254	ND	500	ND	0.17	
11096-82-5	Aroclor 1260	ND	500	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Sample ID: IN-CON-4-9
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1001356
CAS Sample ID: P1001356-003

Test Code: EPA TO-10A
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge
Test Notes:

Date Collected: 4/10/10
Date Received: 4/16/10
Date Extracted: 4/19/10
Date Analyzed: 4/26/10
Volume Sampled: 3.2024 m³
Final Extract Volume: 10 ml

CAS #	Compound	Result ng/Cartridge	MRL ng/Cartridge	Result µg/m ³	MRL µg/m ³	Data Qualifier
12674-11-2	Aroclor 1016	ND	500	ND	0.16	
11104-28-2	Aroclor 1221	ND	500	ND	0.16	
11141-16-5	Aroclor 1232	ND	500	ND	0.16	
53469-21-9	Aroclor 1242	ND	500	ND	0.16	
12672-29-6	Aroclor 1248	ND	500	ND	0.16	
11097-69-1	Aroclor 1254	7,200	500	2.3	0.16	
11096-82-5	Aroclor 1260	ND	500	ND	0.16	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Sample ID: OUT-CON-4-9
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1001356
CAS Sample ID: P1001356-004

Test Code: EPA TO-10A
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge
Test Notes:

Date Collected: 4/10/10
Date Received: 4/16/10
Date Extracted: 4/19/10
Date Analyzed: 4/26/10
Volume Sampled: 2.9804 m³
Final Extract Volume: 10 ml

CAS #	Compound	Result ng/Cartridge	MRL ng/Cartridge	Result µg/m ³	MRL µg/m ³	Data Qualifier
12674-11-2	Aroclor 1016	ND	500	ND	0.17	
11104-28-2	Aroclor 1221	ND	500	ND	0.17	
11141-16-5	Aroclor 1232	ND	500	ND	0.17	
53469-21-9	Aroclor 1242	ND	500	ND	0.17	
12672-29-6	Aroclor 1248	ND	500	ND	0.17	
11097-69-1	Aroclor 1254	ND	500	ND	0.17	
11096-82-5	Aroclor 1260	ND	500	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Sample ID: OUT-CON-4-11
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1001356
CAS Sample ID: P1001356-005

Test Code: EPA TO-10A
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge
Test Notes:

Date Collected: 4/12/10
Date Received: 4/16/10
Date Extracted: 4/19/10
Date Analyzed: 4/26/10
Volume Sampled: 3.291 m³
Final Extract Volume: 10 ml

CAS #	Compound	Result ng/Cartridge	MRL ng/Cartridge	Result µg/m ³	MRL µg/m ³	Data Qualifier
12674-11-2	Aroclor 1016	ND	500	ND	0.15	
11104-28-2	Aroclor 1221	ND	500	ND	0.15	
11141-16-5	Aroclor 1232	ND	500	ND	0.15	
53469-21-9	Aroclor 1242	ND	500	ND	0.15	
12672-29-6	Aroclor 1248	ND	500	ND	0.15	
11097-69-1	Aroclor 1254	ND	500	ND	0.15	
11096-82-5	Aroclor 1260	ND	500	ND	0.15	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL – Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Sample ID: OUT-CON-4-12
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1001356
CAS Sample ID: P1001356-006

Test Code: EPA TO-10A
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge
Test Notes:

Date Collected: 4/13/10
Date Received: 4/16/10
Date Extracted: 4/19/10
Date Analyzed: 4/26/10
Volume Sampled: 3.3059 m³
Final Extract Volume: 10 ml

CAS #	Compound	Result ng/Cartridge	MRL ng/Cartridge	Result µg/m ³	MRL µg/m ³	Data Qualifier
12674-11-2	Aroclor 1016	ND	500	ND	0.15	
11104-28-2	Aroclor 1221	ND	500	ND	0.15	
11141-16-5	Aroclor 1232	ND	500	ND	0.15	
53469-21-9	Aroclor 1242	ND	500	ND	0.15	
12672-29-6	Aroclor 1248	ND	500	ND	0.15	
11097-69-1	Aroclor 1254	4,100	500	1.2	0.15	
11096-82-5	Aroclor 1260	ND	500	ND	0.15	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Sample ID: OUT-CON-4-14
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1001356
CAS Sample ID: P1001356-007

Test Code: EPA TO-10A
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge
Test Notes:

Date Collected: 4/14/10
Date Received: 4/16/10
Date Extracted: 4/19/10
Date Analyzed: 4/26/10
Volume Sampled: 3.174 m³
Final Extract Volume: 10 ml

CAS #	Compound	Result ng/Cartridge	MRL ng/Cartridge	Result µg/m ³	MRL µg/m ³	Data Qualifier
12674-11-2	Aroclor 1016	ND	500	ND	0.16	
11104-28-2	Aroclor 1221	ND	500	ND	0.16	
11141-16-5	Aroclor 1232	ND	500	ND	0.16	
53469-21-9	Aroclor 1242	ND	500	ND	0.16	
12672-29-6	Aroclor 1248	ND	500	ND	0.16	
11097-69-1	Aroclor 1254	ND	500	ND	0.16	
11096-82-5	Aroclor 1260	ND	500	ND	0.16	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Sample ID: Method Blank
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1001356
CAS Sample ID: P100419-MB

Test Code: EPA TO-10A
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge
Test Notes:

Date Collected: NA
Date Received: NA
Date Extracted: 4/19/10
Date Analyzed: 4/26/10
Volume Sampled: NA m³
Final Extract Volume: 10 ml

CAS #	Compound	Result ng/Cartridge	MRL ng/Cartridge	Result µg/m ³	MRL µg/m ³	Data Qualifier
12674-11-2	Aroclor 1016	ND	500	NA	NA	
11104-28-2	Aroclor 1221	ND	500	NA	NA	
11141-16-5	Aroclor 1232	ND	500	NA	NA	
53469-21-9	Aroclor 1242	ND	500	NA	NA	
12672-29-6	Aroclor 1248	ND	500	NA	NA	
11097-69-1	Aroclor 1254	ND	500	NA	NA	
11096-82-5	Aroclor 1260	ND	500	NA	NA	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

NA = Not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1001356

Test Code:- EPA TO-10A
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge(s)
Test Notes:

Date(s) Collected: 4/9 - 4/14/10
Date(s) Received: 4/16/10
Date(s) Extracted: 4/19/10
Date(s) Analyzed: 4/26/10

Client Sample ID	CAS Sample ID	2,4,5,6-Tetrachloro-m-Xylene		Decachlorobiphenyl		Data Qualifier
		% Recovered	Acceptance Limits	% Recovered	Acceptance Limits	
Method Blank	P100419-MB	82	60-120	99	60-120	
Lab Control Sample	P100419-LCS	85	60-120	95	60-120	
Duplicate Lab Control Sample	P100419-DLCS	80	60-120	96	60-120	
OUT-CON-4-7	P1001356-002	75	60-120	88	60-120	
IN-CON-4-9	P1001356-003	80	60-120	99	60-120	
OUT-CON-4-9	P1001356-004	79	60-120	97	60-120	
OUT-CON-4-11	P1001356-005	75	60-120	95	60-120	
OUT-CON-4-12	P1001356-006	76	60-120	96	60-120	
OUT-CON-4-14	P1001356-007	80	60-120	96	60-120	

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1001356
CAS Sample ID: P100419-DLCS

Test Code: EPA TO-10A
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge
Test Notes:

Date Collected: NA
Date Received: NA
Date Extracted: 4/19/10
Date Analyzed: 4/26/10
Volume(s) Analyzed: NA m³

CAS #	Compound	Spike Amount		Result		% Recovery		Project		Data
		LCS / DLCS		LCS	DLCS	LCS	DLCS	Acceptance	RPD	RPD
		µg/ml		µg/ml	µg/ml	Limits		Limit		Qualifier
11097-69-1	Aroclor 1254	500		457	451	91	90	70-130	1	15

LABORATORY REPORT

May 5, 2010

Robert Daniels
Air, Soil, & Water Environmental, Inc. (ASW)
1615 Arizona Avenue
El Paso, TX 79902

RE: University Medical Center of El Paso / 009-UMC-012

Dear Robert:

Enclosed are the results of the samples submitted to our laboratory on April 21, 2010. For your reference, these analyses have been assigned our service request number P1001401.

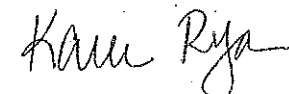
All analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. Results are intended to be considered in their entirety and apply only to the samples analyzed and reported herein. Your report contains 12 pages.

Columbia Analytical Services, Inc. is certified by the California Department of Health Services, NELAP Laboratory Certificate No. 02115CA; Arizona Department of Health Services, Certificate No. AZ0694; Florida Department of Health, NELAP Certification E871020; New Jersey Department of Environmental Protection, NELAP Laboratory Certification ID #CA009; New York State Department of Health, NELAP NY Lab ID No: 11221; Oregon Environmental Laboratory Accreditation Program, NELAP ID: CA20007; The American Industrial Hygiene Association, Laboratory #101661; United States Department of Defense Environmental Laboratory Accreditation Program (DoD-ELAP), Certificate No. L10-3; Pennsylvania Registration No. 68-03307; TX Commission of Environmental Quality, NELAP ID T104704413-09-TX; Minnesota Department of Health, Certificate No. 11495AA. Each of the certifications listed above have an explicit Scope of Accreditation that applies to specific matrices/methods/analytes; therefore, please contact me for information corresponding to a particular certification.

If you have any questions, please call me at (805) 526-7161.

Respectfully submitted,

Columbia Analytical Services, Inc.



Karen Ryan
Project Manager

Page
1 of 12

Client: Air, Soil, & Water Environmental, Inc. (ASW) CAS Project No: P1001401
Project: University Medical Center of El Paso / 009-UMC-012

CASE NARRATIVE

The samples were received intact under chain of custody on April 21, 2010 and were stored in accordance with the analytical method requirements. Please refer to the sample acceptance check form for additional information. The results reported herein are applicable only to the condition of the samples at the time of sample receipt.

Aroclors Analysis

The low volume PUF samples were analyzed for aroclors. The samples were extracted and analyzed for aroclors in accordance with EPA Method TO-10A. An aliquot of the extract was injected into a gas chromatograph with dual electron capture detectors (GC/ECD).

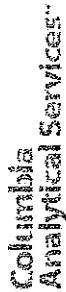
The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for utilization of less than the complete report.

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Project: University Medical Center of El Paso/009-UMC-012

Service Request: P1001401

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
P1001401-001	OUT-CON-4-15	4/16/10	10:11
P1001401-002	OUT-CON-4-17	4/18/10	10:35
P1001401-003	OUT-CON-4-18	4/19/10	10:58
P1001401-004	OUT-CON-4-19	4/20/10	12:15



Air - Chain of Custody Record & Analytical Service Request

Page 7 of 7

CAS Project No. P1001401

[illegible]Tier 1 - (Results/Default if not specified) $\frac{X}{Y}$ Tier 1 - (Results/Default if not specified) $\frac{X}{Y}$

Tier II (Results + QC) _____

Collection of June 1961

Relinquished By: (Signature)
Robert Daniels

Relinquished by: (Signature)

Journal of the American Academy of Child and Adolescent Psychiatry

Relinquished by: (Signature)

[illegible]

4

[illegible]

Columbia Analytical Services, Inc.
Sample Acceptance Check Form

Client: Air, Soil, & Water Environmental, Inc. (ASW)

Work order: P1001401

Project: University Medical Center of El Paso / 009-UMC-012

Sample(s) received on: 04/21/10

Date opened: 04/21/10

by: MZAMORA

Note: This form is used for all samples received by CAS. The use of this form for custody seals is strictly meant to indicate presence/absence and not as an indication of compliance or nonconformity. Thermal preservation and pH will only be evaluated either at the request of the client and/or as required by the method/SOP.

		<u>Yes</u>	<u>No</u>	<u>N/A</u>
1	Were sample containers properly marked with client sample ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Container(s) supplied by CAS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Did sample containers arrive in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Was a chain-of-custody provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Was the chain-of-custody properly completed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Did sample container labels and/or tags agree with custody papers?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Was sample volume received adequate for analysis?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	Are samples within specified holding times?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	Was proper temperature (thermal preservation) of cooler at receipt adhered to?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Cooler Temperature <u>3</u> °C Blank Temperature _____ °C			
10	Was a trip blank received?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Trip blank supplied by CAS: _____			
11	Were custody seals on outside of cooler/Box?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Location of seal(s)? _____ Sealing Lid?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Were signature and date included?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Were seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Were custody seals on outside of sample container?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Location of seal(s)? _____ Sealing Lid?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Were signature and date included?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Were seals intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12	Do containers have appropriate preservation , according to method/SOP or Client specified information?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Is there a client indication that the submitted samples are pH preserved?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Were VOA vials checked for presence/absence of air bubbles?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Does the client/method/SOP require that the analyst check the sample pH and <u>if necessary</u> alter it?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13	Tubes: Are the tubes capped and intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Do they contain moisture?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14	Badges: Are the badges properly capped and intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Are dual bed badges separated and individually capped and intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Lab Sample ID	Container Description	Required pH *	Received pH	Adjusted pH	VOA Headspace (Presence/Absence)	Receipt / Preservation Comments
P1001401-001.01	PUF (Low Vol)					
P1001401-002.01	PUF (Low Vol)					
P1001401-003.01	PUF (Low Vol)					
P1001401-004.01	PUF (Low Vol)					

Explain any discrepancies: (include lab sample ID numbers): _____

*Required pH: Phenols/COD/NH3/TOC/TOX/NO3+NO2/TKN/T.PHOS, H2SO4 (pH<2); Metals, HNO3 (pH<2); CN (NaOH or NaOH/Ase Acid) (pH>12);

Diss. Sulfide, NaOH (pH>12); T. Sulfide, NaOH/ZnAc (pH>12)

RSK - MBEPP, HCL (pH<2); RSK - CO2, (pH 5-8); Sulfur (pH>4)

5

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Sample ID: OUT-CON-4-15
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1001401
CAS Sample ID: P1001401-001

Test Code: EPA TO-10A
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge
Test Notes:

Date Collected: 4/16/10
Date Received: 4/21/10
Date Extracted: 4/22/10
Date Analyzed: 4/26/10
Volume Sampled: 3.0083 m³
Final Extract Volume: 10 ml

CAS #	Compound	Result	MRL	Result	MRL	Data Qualifier
		ng/Cartridge	ng/Cartridge	µg/m ³	µg/m ³	
12674-11-2	Aroclor 1016	ND	500	ND	0.17	
11104-28-2	Aroclor 1221	ND	500	ND	0.17	
11141-16-5	Aroclor 1232	ND	500	ND	0.17	
53469-21-9	Aroclor 1242	ND	500	ND	0.17	
12672-29-6	Aroclor 1248	ND	500	ND	0.17	
11097-69-1	Aroclor 1254	ND	500	ND	0.17	
11096-82-5	Aroclor 1260	ND	500	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
 Client Sample ID: OUT-CON-4-17
 Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1001401
 CAS Sample ID: P1001401-002

Test Code: EPA TO-10A
 Instrument ID: HP6890/GC6/ECD/ECD
 Analyst: Hani Cherazaie
 Sampling Media: PUF (Low Volume) Cartridge
 Test Notes:

Date Collected: 4/18/10
 Date Received: 4/21/10
 Date Extracted: 4/22/10
 Date Analyzed: 4/26/10
 Volume Sampled: 3.1826 m³
 Final Extract Volume: 10 ml

CAS #	Compound	Result ng/Cartridge	MRL ng/Cartridge	Result µg/m ³	MRL µg/m ³	Data Qualifier
12674-11-2	Aroclor 1016	ND	500	ND	0.16	
11104-28-2	Aroclor 1221	ND	500	ND	0.16	
11141-16-5	Aroclor 1232	ND	500	ND	0.16	
53469-21-9	Aroclor 1242	ND	500	ND	0.16	
12672-29-6	Aroclor 1248	ND	500	ND	0.16	
11097-69-1	Aroclor 1254	ND	500	ND	0.16	
11096-82-5	Aroclor 1260	ND	500	ND	0.16	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Sample ID: OUT-CON-4-18
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1001401
CAS Sample ID: P1001401-003

Test Code: EPA TO-10A
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge
Test Notes:

Date Collected: 4/19/10
Date Received: 4/21/10
Date Extracted: 4/22/10
Date Analyzed: 4/26/10
Volume Sampled: 3.1866 m³
Final Extract Volume: 10 ml

CAS #	Compound	Result ng/Cartridge	MRL ng/Cartridge	Result µg/m ³	MRL µg/m ³	Data Qualifier
12674-11-2	Aroclor 1016	ND	500	ND	0.16	
11104-28-2	Aroclor 1221	ND	500	ND	0.16	
11141-16-5	Aroclor 1232	ND	500	ND	0.16	
53469-21-9	Aroclor 1242	ND	500	ND	0.16	
12672-29-6	Aroclor 1248	ND	500	ND	0.16	
11097-69-1	Aroclor 1254	ND	500	ND	0.16	
11096-82-5	Aroclor 1260	ND	500	ND	0.16	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

Verified By: Re Date: 5/4/10

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Sample ID: OUT-CON-4-19
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1001401
CAS Sample ID: P1001401-004

Test Code: EPA TO-10A
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge
Test Notes:

Date Collected: 4/20/10
Date Received: 4/21/10
Date Extracted: 4/22/10
Date Analyzed: 4/26/10
Volume Sampled: 2.9665 m³
Final Extract Volume: 10 ml

CAS #	Compound	Result ng/Cartridge	MRL ng/Cartridge	Result µg/m ³	MRL µg/m ³	Data Qualifier
12674-11-2	Aroclor 1016	ND	500	ND	0.17	
11104-28-2	Aroclor 1221	ND	500	ND	0.17	
11141-16-5	Aroclor 1232	ND	500	ND	0.17	
53469-21-9	Aroclor 1242	ND	500	ND	0.17	
12672-29-6	Aroclor 1248	ND	500	ND	0.17	
11097-69-1	Aroclor 1254	ND	500	ND	0.17	
11096-82-5	Aroclor 1260	ND	500	ND	0.17	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

COLUMBIA ANALYTICAL SERVICES, INC.

RESULTS OF ANALYSIS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Sample ID: Method Blank
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1001401
CAS Sample ID: P100422-MB

Test Code: EPA TO-10A
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge
Test Notes:

Date Collected: NA
Date Received: NA
Date Extracted: 4/22/10
Date Analyzed: 4/26/10
Volume Sampled: NA m³
Final Extract Volume: 10 ml

CAS #	Compound	Result ng/Cartridge	MRL ng/Cartridge	Result µg/m ³	MRL µg/m ³	Data Qualifier
12674-11-2	Aroclor 1016	ND	500	NA	NA	
11104-28-2	Aroclor 1221	ND	500	NA	NA	
11141-16-5	Aroclor 1232	ND	500	NA	NA	
53469-21-9	Aroclor 1242	ND	500	NA	NA	
12672-29-6	Aroclor 1248	ND	500	NA	NA	
11097-69-1	Aroclor 1254	ND	500	NA	NA	
11096-82-5	Aroclor 1260	ND	500	NA	NA	

ND = Compound was analyzed for, but not detected above the laboratory reporting limit.

MRL = Method Reporting Limit - The minimum quantity of a target analyte that can be confidently determined by the referenced method.

NA = Not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

SURROGATE SPIKE RECOVERY RESULTS

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1001401

Test Code: EPA TO-10A
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge(s)
Test Notes:

Date(s) Collected: 4/16 - 4/20/10

Date(s) Received: 4/21/10

Date(s) Extracted: 4/22/10

Date(s) Analyzed: 4/26/10

Client Sample ID	CAS Sample ID	2,4,5,6-Tetrachloro-m-Xylene		Decachlorobiphenyl		Data Qualifier
		% Recovered	Acceptance Limits	% Recovered	Acceptance Limits	
Method Blank	P100422-MB	87	60-120	102	60-120	
Lab Control Sample	P100422-LCS	83	60-120	99	60-120	
Duplicate Lab Control Sample	P100422-DLCS	85	60-120	101	60-120	
OUT-CON-4-15	P1001401-001	81	60-120	99	60-120	
OUT-CON-4-17	P1001401-002	85	60-120	100	60-120	
OUT-CON-4-18	P1001401-003	82	60-120	100	60-120	
OUT-CON-4-19	P1001401-004	74	60-120	100	60-120	

COLUMBIA ANALYTICAL SERVICES, INC.

LABORATORY CONTROL SAMPLE / DUPLICATE LABORATORY CONTROL SAMPLE SUMMARY

Page 1 of 1

Client: Air, Soil, & Water Environmental, Inc. (ASW)
Client Sample ID: Duplicate Lab Control Sample
Client Project ID: University Medical Center of El Paso / 009-UMC-012

CAS Project ID: P1001401
CAS Sample ID: P100422-DLCS

Test Code: EPA TO-10A
Instrument ID: HP6890/GC6/ECD/ECD
Analyst: Hani Cherazaie
Sampling Media: PUF (Low Volume) Cartridge
Test Notes:

Date Collected: NA
Date Received: NA
Date Extracted: 4/22/10
Date Analyzed: 4/26/10
Volume(s) Analyzed: NA m³

CAS #	Compound	Spike Amount		Result		% Recovery		Project	RPD	RPD	Data
		LCS / DLCS	LCS	DLCS	LCS	DLCS	LCS	Acceptance			
		ng/ml	ng/ml	ng/ml	LCS	DLCS	Limits	Limit	Qualifier		
11097-69-1	Aroclor 1254	500	467	463	93	93	70-130	0	15		



2655 Park Center Drive, Suite A

Simi Valley, California 93065

Phone (805) 526-7161

Fax (805) 526-7270

Air - Chain of Custody Record & Analytical Service Request

Requested Turnaround Time in Business Days (Surcharges) please circle						CAS Project No.			
1 Day (100%) 2 Day (75%) 3 Day (50%) 4 Day (35%) 5 Day (25%) 10 Day-Standard									
CAS Contact:									
Project Name University Medical Center of El Paso									
Project Number 009-UMC-012									
P.O.# / Billing Information AIR, SOIL and WATER ENVIRONMENTAL, Inc. 1615 Arizona Avenue El Paso, Texas 79902									
Sampler (Print & Sign) Robert Daniels									
Client Sample ID	Laboratory ID Number	Date Collected	Time Collected	Sample Type (Air/Tube/Solid)	Canister ID (Bar code # - AC, SC, etc.)	Flow Controller (Bar code - FC #)	Sample Volume	EPA TO-10A PCBs	Comments e.g. Actual Preservative or specific instructions
IN-CON-4-7		4-9-2010	09:31	PUF			3189.1 L	X	
OUT-CON-4-7		4-9-2010	10:05	PUF			2971.2 L	X	
IN-CON-4-9		4-10-2010	10:07	PUF			3202.4 L	X	
OUT-CON-4-9		4-10-2010	10:31	PUF			2980.4 L	X	
OUT-CON-4-11		4-12-2010	10:45	PUF			3291.0 L	X	
OUT-CON-4-12		4-13-2010	10:51	PUF			3305.9 L	X	
OUT-CON-4-14		4-14-2010	11:31	PUF			3174.0 L	X	
Report Tier Levels - please select									
Tier I - (Results/Default if not specified) X									
Tier II (Results + QC) _____									
Tier III (Data Validation Package) 10% Surcharge _____									
Tier V (client specified) _____									
EDD required Yes / No EDD Units: _____									
Project Requirements (MRLs, QAPP)									
Relinquished by: (Signature) Robert Daniels			Date: 4-15-10	Time: 4:52 pm	Received by: (Signature)		Date:	Time:	
Relinquished by: (Signature)			Date:	Time:	Received by: (Signature)		Date:	Time:	
Relinquished by: (Signature)			Date:	Time:	Received by: (Signature)		Date:	Time:	
			Date:	Time:			Date:	Time:	

COMPENDIUM METHOD TO-10A FIELD TEST DATA SHEET (FTDS)

I. GENERAL INFORMATION

PROJECT: UMC PCB TESTING DATE(S) SAMPLED: 4-11-10 to 4-8-10
 SITE: UMC T_hason _{os} TIME PERIOD SAMPLED: 24 _{rs}
 LOCATION: T_oer Building OPERATOR: Robert Daniels
 INSTRUMENT MODEL NO: AirC_exi CALIBRATED B_o: Bios Defender 510-M
 PUMP SERIAL NO.: 20975 RAIN: ☐ES ☒NO

ADSORBENT CARTRIDGE INFORMATION:

Type:	Cartridge 1 PUF	Cartridge 2 PUF	Cartridge 3 PUF	Cartridge 4 PUF
Absorbent:	Polyurethane foam	Polyurethane foam	Polyurethane foam	Polyurethane foam
Serial No.:	L-19	L-20		
Sample No.:	OUT-CON-4-11	OUT-CON-4-12		

II. SAMPLING DATA

Cartridge Identification	Sampling Location	Ambient Temperature, °F	Ambient Pressure, in _{Hg}	Flow Rate (L/min)		Sampling Period		Total Sampling Time, min	Total Sample Volume, L
				Cartridge 1	Cartridge 2	Start	Stop		
L-19	outside cont	73.9	29.99 in	2285.4	N/A	10:45	10:45	1,440	3291.05
L-20	outside cont	46.9	29.86 in	2204.2	N/A	08:31	08:31	1,440	3174.0

April 11, 2010

April 12, 2010

III. FIELD AUDIT

	Cartridge 1	Cartridge 2	Cartridge 3	Cartridge 4
Audit Flow Check Within <u> </u> min	<u> </u>	<u> </u>	<u> </u>	<u> </u>
10% of Set Point (N/A) <u> </u>	Pre- 2268.3	Pre- 2224.7	Pre- 2213.9	Pre- <u> </u>
OUTSIDE OF EMERGENCY ROOM PRE	Post- 2261.5	Post- 2226.5	Post- 2219.6	Post- <u> </u>

CHECKED BY: _____

DATE: April 8, 2010

Figure 5. Compendium Method TO-10A field test data sheet.

COMPENDIUM METHOD TO-10A FIELD TEST DATA SHEET (FTDS)

I. GENERAL INFORMATION

PROJECT: UMC PCB TESTING DATE(S) SAMPLED: 4-08-10 to 4-11-10
 SITE: UMC T_hason _{os} TIME PERIOD SAMPLED: 24 _{rs}
 LOCATION: T_oer Building OPERATOR: Robert Daniels
 INSTRUMENT MODEL NO: AirC_e_x CALIBRATED BY: Bios Defender 510-M
 PUMP SERIAL NO.: 20774 RAIN: ☐ES ☒NO

ADSORBENT CARTRIDGE INFORMATION:

	Cartridge 1 PUF	Cartridge 2 PUF	Cartridge 3 PUF	Cartridge 4 PUF
Type:				
Adsorbent:	Polyurethane foam	Polyurethane foam	Polyurethane foam	Polyurethane foam
Serial No.:	L-11	L-28		
Sample No.:	OUT-CON-4-7	OUT-CON-4-9		

II. SAMPLING DATA

Cartridge Identification	Sampling Location	Ambient Temp, °F	Ambient Pressure, in Hg	Flow Rate (L/min), L/min		Sampling Period		Total Sampling Time, min	Total Sample Volume, L
				Cartridge 1	Cartridge 2	Start	Stop		
L-11	OUT cont	53.1	30.01 in	2063.3	N/A	10:05	10:05	1,440	2971.2
L-28	OUT cont	64.0	29.85 in	2069.7	N/A	10:31	10:31	1,440	2980.4

April 8, 2010
April 9, 2010

III. FIELD AUDIT

	Cartridge 1	Cartridge 2	Cartridge 3	Cartridge 4
Audit Flow Check With In <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10% of Set Point (in Hg) <input type="checkbox"/>	Pre- 2268.3	Pre- 2224.7	Pre- 2213.9	Pre-
OUTSIDE OF EMERGENCY ROOM PRE <input type="checkbox"/>	Post- 2261.5	Post- 2226.5	Post- 2219.6	Post-

CHECKED BY: _____

DATE: April 8, 2010

Figure 5. Compendium Method TO-10A field test data sheet.

COMPENDIUM METHOD TO-10A FIELD TEST DATA SHEET (FTDS)

I. GENERAL INFORMATION

PROJECT: UMC PCB TESTING DATE(S) SAMPLED: 4-11-10 to 4-14-10
 SITE: UMC T_hason _{os} TIME PERIOD SAMPLED: 24 hrs
 LOCATION: To_{er} Building OPERATOR: Robert Daniels
 INSTRUMENT MODEL NOA_{ir}C_e_x CALIBRATED B_y: Bios Defender 510-M
 PUMP SERIAL NO.: 20975 RAIN: ES NO

ADSORBENT CARTRIDGE INFORMATION:

Type:	Cartridge 1 PUF	Cartridge 2 PUF	Cartridge 3 PUF	Cartridge 4 PUF
Absorbent:	Polyurethane foam	Polyurethane foam	Polyurethane foam	Polyurethane foam
Serial No.:	L-9	L-2	L-15	
Sample No.:	IN-CON-4-7	IN-CON-4-9	OUT-CON-4-14	

II. SAMPLING DATA

Cartridge Identification	Sampling Location	Ambient Temperature, °F	Ambient Pressure, in Hg	Flow Rate (L/min), L/min		Sampling Period		Total Sampling Time, min	Total Sample Volume, L
				Cartridge 1	Cartridge 2	Start	Stop		
L-9	inside con	53.1	30.01 in	2214.7	N/A	9:31	09:31	1,440	3189.1
L-2	inside con	64.0	29.85 in	2223.9	N/A	10:07	10:07	1,440	3202.4
L-15	outside con	73.9	29.86 in	2204.2	N/A	11:31	11:31	1,440	3174.0

April 8, 2010
 April 12, 2010
 April 14, 2010

III. FIELD AUDIT

	Cartridge 1	Cartridge 2	Cartridge 3	Cartridge 4
Audit Flow Check Within	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10% of Set Point (N/A)	<input type="checkbox"/> re-	<input type="checkbox"/> re-	<input type="checkbox"/> re-	<input type="checkbox"/> re-
OUTSIDE OF EMERGENCY ROOM PRE	<input type="checkbox"/> test-	<input type="checkbox"/> test-	<input type="checkbox"/> test-	<input type="checkbox"/> test-

CHECKED BY: _____

DATE: April 8, 2010

Figure 5. Compendium Method TO-10A field test data sheet.

COMPENDIUM METHOD TO-10A FIELD TEST DATA SHEET (FTDS)

I. GENERAL INFORMATION

PROJECT: UMC PCB TESTING DATE(S) SAMPLED: Marc 30 2010 to 4-8-10
 SITE: UMC T_hason _{os} TIME PERIOD SAMPLED: 24 hrs
 LOCATION: To_{er} Building OPERATOR: Robert Daniels
 INSTRUMENT MODEL NO: AirC₆xi CALIBRATED BY: Bios Defender 510-M
 PUMP SERIAL NO.: 20975 RAIN: ES x NO

ADSORBENT CARTRIDGE INFORMATION:

Type:	Cartridge 1 PUF	Cartridge 2 PUF	Cartridge 3 PUF	Cartridge 4 PUF
Adsorbent:	Polyurethane foam	Polyurethane foam	Polyurethane foam	Polyurethane foam
Serial No.:	L-10	L-12	L-16	
Sample No.:	OUT-CON-3-30	IN-CON-3-31	OUT-CON-4-6	

II. SAMPLING DATA

Cartridge Identification	Sampling Location	Ambient Temp, °F	Ambient Pressure, in Hg	Flow Rate (L/min), L/min		Sampling Period		Total Sampling Time, min	Total Sample Volume, L	
				Cartridge 1	Cartridge 2	Start	Stop			
L-10	outside cont	48.9	29.84 in	2264.9	N/A	08:10	08:10	1,440	3261.5	Marc 30, 2010
L-12	outside cont	69.1	29.76 in	2225.6	N/A	08:31	08:31	1,440	3204.9	Marc 31, 2010
L-16	outside cont	68.0	29.77 in	2216.7	N/A	10:01	10:01	1,440	3192.1	April 06, 2010

III. FIELD AUDIT

	Cartridge 1	Cartridge 2	Cartridge 3	Cartridge 4
Audit Flow Check Within 10% of Set Point (L/min)	<u>re- 2268.3</u>	<u>re- 2224.7</u>	<u>re-2213.9</u>	<u>re-</u>
OUTSIDE OF EMERGENCY ROOM PRE	<u>bst- 2261.5</u>	<u>bst- 2226.5</u>	<u>bst-2219.6</u>	<u>bst-</u>

CHECKED BY: _____

DATE: April 8, 2010

Figure 5. Compendium Method TO-10A field test data sheet.

Emergency Response Action Plan

University Medical Center of El Paso

For exterior PCB Abatement containment failures due to strong winds or other environmental factors the following shall apply:

1. Steps to minimize possibility of failure:

- a. Containments shall be cleared and taken down before the end of each work shift
- b. Containment shall be supported by means of pre-fabricated steel scaffold frames
- c. Scaffold frames shall be secured to the floor or wall with concrete anchors
- d. Solid barriers consisting of plywood sheets shall be secured to the scaffold on exterior of the containment
- e. Containment shall be monitored continuously for signs of possible failure
- f. The supervisor shall assign repair duties or contamination control duties to each member of the work crew
- g. Waste materials shall be containerized as soon as feasible after they are removed from the walls

2. Required actions in the event of containment failure:

- a. All abatement work shall stop immediately if failure occurs
- b. Any damage or breach in the integrity of the containment shall be repaired immediately by personnel assigned to this task
- c. While repairs are being done, personnel assigned to contamination control shall immediately cover or containerize all exposed waste materials
- d. Removal work shall not restart until the supervisor is assured that the containment is sufficient for the current environmental conditions

COMPENDIUM METHOD TO-10A FIELD TEST DATA SHEET (FTDS)

I. GENERAL INFORMATION

PROJECT: UMC PCB TESTING DATE(S) SAMPLED: Marc 27, 2010 to 4-8-10
 SITE: UMC Traction Road TIME PERIOD SAMPLED: 24 hrs
 LOCATION: Tower Building OPERATOR: Robert Daniels
 INSTRUMENT MODEL NO: AirC 2000 CALIBRATED BY: Bios Defender 510-M
 PUMP SERIAL NO.: 45363 RAIN: YES NO

ADSORBENT CARTRIDGE INFORMATION:

Type:	Cartridge 1 PUF	Cartridge 2 PUF	Cartridge 3 PUF	Cartridge 4 PUF
Adsorbent:	Polyurethane foam	Polyurethane foam	Polyurethane foam	Polyurethane foam
Serial No.:	L-1	L-4	L-14	L-18
Sample No.:	ABT-1-PRE	IN-CON-3-30	OUT-CON-3-31	IN-CON-4-6

II. SAMPLING DATA

Cartridge Identification	Sampling Location	Ambient Temp, °F	Ambient Pressure, in Hg	Flow Rate (L/min)		Sampling Period		Total Sampling Time, min	Total Sample Volume, L	
				Cartridge 1	Cartridge 2	Start	Stop			
L-1	ReER	67	29.94 in	2052.1	N/A	11:52	11:52	1,440	2955.0	Marc 27, 2010
L-4	inside cont	48.9	29.84 in	2273.4	N/A	07:43	07:43	1,440	3273.7	Marc 30, 2010
L-14	outside cont	69.1	29.76 in	2272.9	N/A	08:57	08:57	1,440	3273.0	Marc 31, 2010
L-18	inside cont	68.0	29.77 in	2238.3	N/A	09:45	09:45	1,440	3223.2	April 06, 2010

III. FIELD AUDIT

	Cartridge 1	Cartridge 2	Cartridge 3	Cartridge 4
Audit Flow Check Within 10% of Set Point (100)	Pre- 2061.4	Pre- 2272.5	Pre- 2279.2	Pre- 2237.1
OUTSIDE OF EMERGENCY ROOM PRE	Post- 2042.8	Post- 2274.3	Post- 2266.5	Post- 2239.6

CHECKED BY: _____

DATE: February 1, 2010

Figure 5. Compendium Method TO-10A field test data sheet.

ATTACHMENT D



UNIVERSITY MEDICAL CENTER
OF EL PASO



UMC Coating Review Checklist

Semi Annual Inspection of all Facade elastomeric coating systems for proper coverage and integrity.

Bldg Name _____ Date _____
Address _____ Inspector's Name _____
Address _____ Inspector's Signature _____

Facade Level

Tour the perimeter of the hospital from the street and conduct a facade review using high-powered binoculars twice a year. Document any deterioration e.g. peeling, fading, chipping) in the coating system. Inspect top floor walls from roof.

CHECK

- ☐ Inspect the upper facade window surrounds using ground based inspections and high power binoculars.
- ☐ Inspect the horizontal Pre-cast concrete section of the facade.
- ☐ Inspect any damage to cooling tower surrounds from loose or damaged antenna or dish installations.
- ☐ Inspect upper top floor wall for damage at tie back locations from window washing d-ring clamping.

Ground Floor Level

Tour the perimeter of the hospital ground level. Document any deterioration in the coating system.

CHECK

- ☐ Inspect the elastomeric coating at the double striping located at caulking joint for contrasting color indication.
- ☐ Inspect any concrete spalling chipping or cracking at columns, column cove, or retail facade panels or entryways.
- ☐ Inspect any cracks in new caulking that would expose the uncoated section of concrete behind the caulk joint.
- ☐ Inspect all exterior signage for loose or hanging signage that may expose anchors that are inserted in concrete.
- ☐ Inspect any damage to retail window mullions that tie into the concrete panels.
- ☐ Inspect any damage to spandrel beams or columns from window washing ropes as cleaners descend from the building.
- ☐ Inspect any damage to facade retail wall from bikes as they are locked with chains into bike rack.
- ☐ Inspect any damage to concrete coping stones at all planter locations from landscaping activity.
- ☐ Inspect sitting areas for damage from vandalism or cigarette burns.
- ☐ Inspect the concrete coping stones for damage.

Additional Information

- ☐ Photos attached
- ☐ Additional narrative attached

****The Manager of Portfolio Engineering ("PCB Program Manager") will thoroughly inspect the exterior facade of UMC two times per year. All deterioration and damage to the coating will be noted, and corrective work plans will be initiated to repair the coating to the original condition.****

